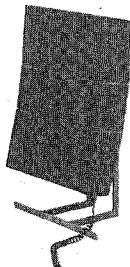
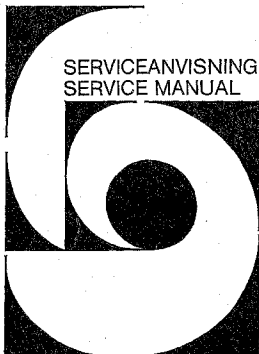


Bang&Olufsen

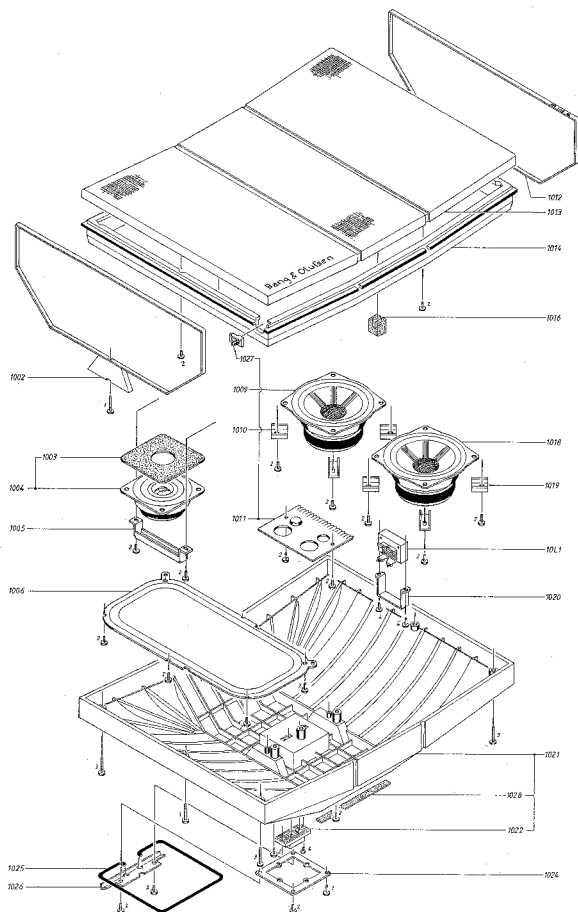


BEOVOX 4



| | |
|----------------------------------|------|
| Red Line RL60, type 6503 | 1-1 |
| Accessories | 1-5 |
| Ceiling Bracket, type 6022 | 1-5 |
| Stand, type 6018 | 1-6 |
| Red Line RL45, type 6504 | 1-9 |
| Accessories | 1-12 |

RED LINE RL60, TYPE 6503



Mekanisk stykliste List of Mechanical Parts

| | | | |
|-------|---------|-----------------------|----------------------------|
| 1002 | 3940138 | Pyntebånd | Ribbon |
| 1003 | 3340045 | Pakning | Gasket |
| 1004 | 8480176 | Diskant højttaler | Tweeter |
| 1005 | 3031125 | Bøjle | Clamp |
| 1006 | 8480180 | ABR enhed | ABR unit |
| 1009 | 8480177 | Bas højttaler | Woofers |
| 1010 | 3031124 | Beslag | Fitting |
| 1011 | 8039016 | Delefilter | Crossover network |
| 1012 | 3940137 | Pyntebånd m. tryk | Ribbon with print |
| 1013 | 3440085 | Baffel m. stof | Baffle with cloth |
| 1014 | 3320094 | Ramme f. kabinet | Frame for cabinet |
| | 3340055 | Pakning til ramme | Gasket for frame |
| 1016 | 3907045 | Gummaiklods | Rubber block |
| 1018 | 8480177 | Bas højttaler | Woofers |
| 1019 | 3031124 | Beslag | Fitting |
| 1020 | 2510147 | Bøjle | Clamp |
| 1021 | 3414857 | Kabinet | Cabinet |
| *1022 | 7210509 | Dobbelt stikterminal | Double connection terminal |
| 1024 | 3031110 | Beslag ophæng | Fitting for wall mounting |
| 1025 | 2514050 | Støttebøjle | Support bow |
| 1026 | 2548217 | Beslag f. støttebøjle | Fitting for support bow |
| 1027 | 7210507 | DIN stik | DIN socket |
| 1028 | 3912049 | Flitestykke | Pelt piece |

Skrueoversigt Survey of screws

| | | | |
|------|---------|--------------|-------------|
| 10L1 | 6850014 | Spole 6,8 mH | Coil 6,8 mH |
|------|---------|--------------|-------------|

| | | | |
|---|---------|--------------|--------------|
| 1 | 2015112 | Skrue 3,5x50 | Screw 3.5x50 |
| 2 | 2015108 | Skrue 3,5x16 | Screw 3.5x16 |
| 3 | 2015111 | Skrue 3,5x40 | Screw 3.5x40 |
| 4 | 2013118 | Skrue 3x8 | Screw 3x8 |

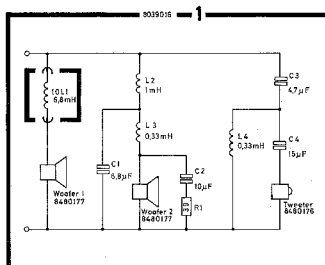
Ikke viste dele Parts not shown

| | | |
|---------|------------------------|---------------------------|
| 3031109 | Standard beslag | Standard mounting bracket |
| 2044015 | Stilleskrue | Adjustment screw |
| 3506108 | Betjeningsanvisning | Owner's manual |
| 3922018 | Rock-wool klods, lille | Rock-wool block, small |
| 3922019 | Rock-wool klods, stor | Rock-wool block, large |
| 6270167 | Ledning 4 m | Cable 4 m |

* I de første højttalere blev der brugt 2 enkeltstik sort stik nr. 7210483, rødt stik nr. 7210484

* The first loudspeakers were fitted with 2 separate sockets, black socket no. 7210483, red socket no. 7210484

Diagram



Elektrisk stykliste
List of Electrical Parts

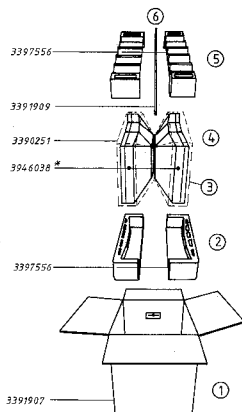
R1 5020692 39 Ω 5% 3W

| | | | | | |
|----|---------|---------------------|----|---------|---------------------|
| C1 | 4200336 | 6.8 μ F 20% 23V | C3 | 4200387 | 4.7 μ F 20% 23V |
| C2 | 4200337 | 10 μ F 20% 23V | C4 | 4200273 | 15 μ F 20% 23V |

| | | | | | |
|----|---------|-------------|----|---------|-------------|
| L2 | 6850153 | Coil 1mH | L4 | 6850144 | Coil 0.33mH |
| L3 | 6850019 | Coil 0.33mH | | | |

10L1 6850014 Coil 6.8mH

Pakke procedure
Packing procedure



* Folie 3946038 leveres i metermål.

* Foil 3946038 is sold by the metre.

Technical specifications

| | |
|-------------------------------|------------------------------|
| RMS power handling capacity | 60 watts |
| Music power handling capacity | 90 watts |
| Impedance | 8 ohms |
| Frequency range +4 -8 dB | 45-20,000 Hz |
| Power at 96 dB SPL | 2 watts |
| Sensitivity 1 W | 93 dB |
| Distortion 250-1000 Hz | <1% |
| Distortion >1000 Hz | <0.5% |
| Acoustic principle | ABR, Auxiliary Bass Radiator |
| ABR unit | 15 x 33 cm |
| Woofer | 2 units 5" - 13 cm |
| Tweeter | 1" - 25 mm |
| Crossover frequency | 2500 Hz |
| Net. volume | 19 litres |
| Dimensions WxHxD | 54 x 40.5 x 18 cm |
| Weight | 9 kg |

Subject to change without notice

1-5

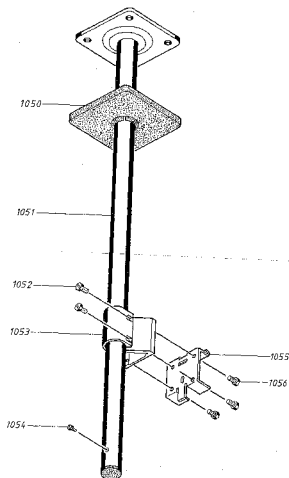
Oversigt over tilbehør til RL60
Survey of accessories for RL60

Loftsøjle, 8960220
Ceiling Bracket, 8960220

Bang&Olufsen

8960246 Spiralledning
3124101 Opspændingsplade til
lette skille vægge
8960220 Loftsøjle
8960187 Understel
8960206 Indstillelig vægbeslag
3390263 Pose m. dele til
indstillelig vægbeslag

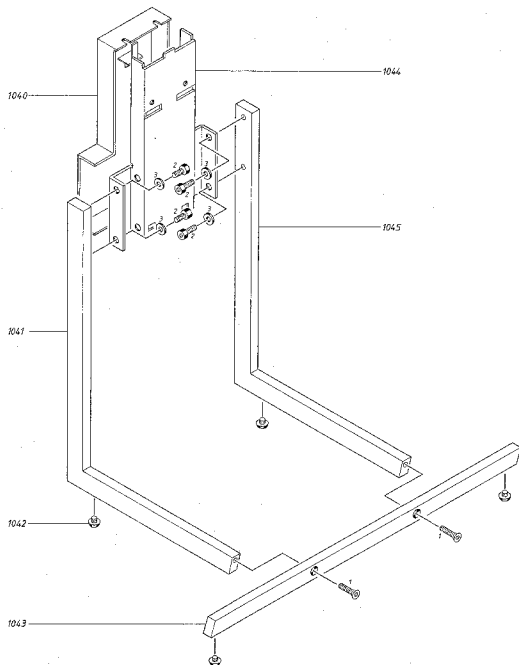
Red Line Cord
Wall plate for light partition walls
Ceiling Bracket
Stand
Wall Bracket
Bag w. parts for Wall Bracket



1050 3162224 Dæksel
1051 3103195 Rør
1052 2044035 Skruer AM5x10
1053 2644016 Spændestykke
1054 2042201 Skruer AM4x4
1055 3031109 Standard beslag
1056 2044035 Skruer AM5x10
3390262 Pose m. dele
3391922 Emballage

Cover plate
Tube
Screw AM5x10
Triangle with ribbon
Screw AM4x4
Standard mounting bracket
Screw AM5x10
Bag w. parts
Packing

Understel, 8960187
Stand, 8960187



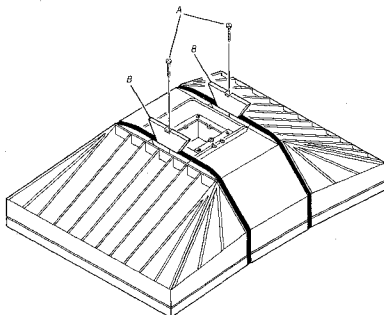
| | | | |
|------|---------|---------------------|---------------------------|
| 1040 | 3162218 | Dækplade | Cover plate |
| 1041 | 3930062 | Endestykke, venstre | End piece, left |
| 1042 | 3035026 | Gummifod | Rubber foot |
| 1043 | 2568854 | Skinne | Bar |
| 1044 | 3031119 | Beslag | Mounting bracket |
| 1045 | 3930061 | Endestykke, højre | End piece, right |
| | 2316007 | Stilleskrue | Adjustment screw |
| | 3031109 | Standard beslag | Standard mounting bracket |
| | 3390258 | Pose m. delc | Bag w. parts |
| | 2044029 | Skrue M5x6 | Screw M5x6 |
| | 3040016 | Sekskanthule 4 mm | Hexagon spanner 4 mm |
| | 3040920 | Sekskanthule 2,5 mm | Hexagon spanner 2,5 mm |
| | 3397541 | Skumemballage | Foam packing |
| | 3391814 | Omslag | Wrapper |
| | 3946013 | Plastfolie 1 m | Plastic foil 1 m |

Skrueoversigt Survey of screws

| | | | |
|---|---------|-------------|-------------|
| 1 | 2042049 | Skrue M4x20 | Screw M4x20 |
| 2 | 2044012 | Skrue M5x10 | Screw M5x10 |
| 3 | 2622028 | Skive | Washer |

Adskillelse

Disassembly



Aftag de to skruer A.

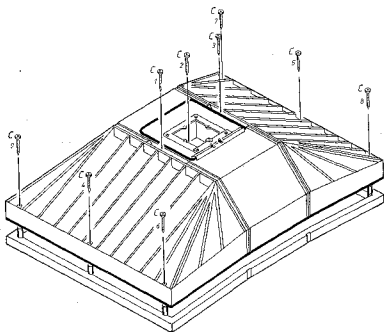
Remove the two screws A.

De to spændestykker B med pyntebånd kan nu aftages.

The two triangles B with ribbon can now be removed.

NB! Vær opmærksom på at det kun er det øverste bånd, der er forsynet med tekst, samt at teksten vendes korrekt ved samling af højttaleren igen

NB! Note that only the upper ribbon is supplied with text, and make sure the text is turned correctly when re-assembling.



Aftag de ni skruer C.

Remove the nine screws C.

Bagparten kan nu tages af.

The rear part can now be removed.

Ved samling af højttaleren igen skal skruerne spændes i rækkefølgen 1-9, for at sikre at kabinettet er helt tæt.

When re-assembling the loudspeaker the screws must be tightened in the order 1-9, in order to ensure that the cabinet is completely tight.

Anbefalet tilspændingsmoment er 15 kp/cm.

Recommended torque is 15 kp/cm.

Service tips

Reparationsmetode for skruehuller til kabinetsammenspænding.

Hvis skrueerne til kabinetsammenspænding (mærket 3 på tegning) skrues over, kan følgende reparationsmetode anvendes:

Mellemramme (pos. 1014) afmonteres.

De 6 huller i bafflen bores op til 6,2 mm.

Indslagsbøsning 2389054 hamres i de opborede huller, indtil de flugter med overfladen.

Højtaleren samles igen, og der anvendes M4 skruer til sammenspænding:

RL45, type 6504, AM4x16 mm, bestillingsnr. 2043035
RL60, type 6503, AM4x25 mm, bestillingsnr. 2043031

Service Tips

Repair method for screw holes for cabinet assembly.

In case the screws for cabinet assembly (marked 3 on the drawing) are stripped, the following repair method may be used:

Connecting frame (pos. 1014) is dismantled.

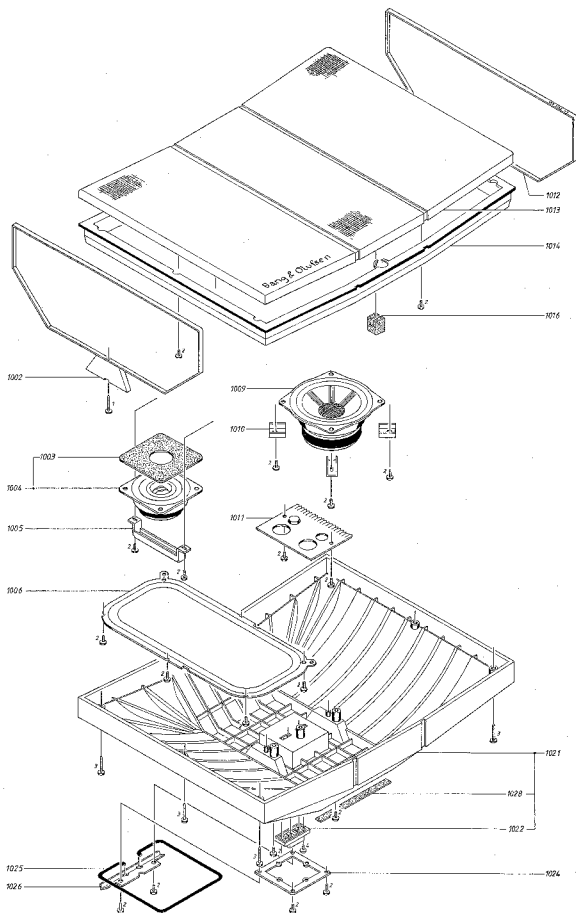
The 6 holes in the baffle are rebores to 6.2 mm.

Drive-fit bushing 2389054 is hammered into the rebores holes, until they flush.

Re-assemble loudspeaker and use M4 screws for assembly:

RL45, type 6504, AM4x16 mm, part no. 2043035
RL60, type 6503, AM4x25 mm, part no. 2043031

RED LINE RL45, TYPE 6504



Mekanisk styklister List of Mechanical Parts

| | | | |
|-------|---------|-----------------------|----------------------------|
| 1002 | 3940146 | Pyntebånd | Ribbon |
| 1003 | 3340045 | Pakning | Gasket |
| 1004 | 8480176 | Diskant højttaler | Tweeter |
| 1005 | 3031125 | Bøjle | Clamp |
| 1006 | 8480180 | ABR enhed | ABR unit |
| 1009 | 8480178 | Bas højttaler | Woofer |
| 1010 | 3031124 | Beslag | Fitting |
| 1011 | 8039070 | Delefilter | Crossover network |
| 1012 | 3940145 | Pyntebånd m. tryk | Ribbon with print |
| 1013 | 3440086 | Baffle m. stof | Baffle with cloth |
| 1014 | 3320095 | Ramme f. kabinet | Frame for cabinet |
| | 3340065 | Pakning til ramme | Gasket for frame |
| 1016 | 3907045 | Gummiklods | Rubber block |
| 1021 | 3414857 | Kabinet | Cabinet |
| *1022 | 7210509 | Dobbelt stikterminal | Double connection terminal |
| 1024 | 3031110 | Beslag ophæng | Fitting for wall mounting |
| 1025 | 2514060 | Støttebøjle | Support bow |
| 1026 | 2548217 | Beslag f. støttebøjle | Fitting for support bow |
| 1028 | 3912049 | Filterstykke | Felt piece |

Skrueoversigt Survey of screws

| | | | |
|---|---------|--------------|--------------|
| 1 | 2015112 | Skrue 3,5x50 | Screw 3.5x50 |
| 2 | 2015108 | Skrue 3,5x16 | Screw 3.5x16 |
| 3 | 2015111 | Skrue 3,5x40 | Screw 3.5x40 |
| 4 | 2013118 | Skrue 3x8 | Screw 3x8 |

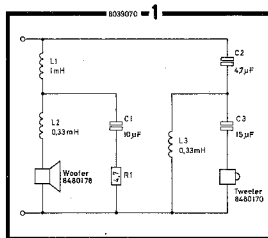
Ikke viste dele Parts not shown

| | | |
|---------|------------------------|---------------------------|
| 3031109 | Standard beslag | Standard mounting bracket |
| 2044015 | Stilleskrue | Adjustment screw |
| 3506108 | Bedjeningsanvisning | Owner's manual |
| 3922018 | Rock-wool klods, lille | Rock-wool block, small |
| 3922019 | Rock-wool klods, stor | Rock-wool block, large |
| 6270167 | Ledning 4 m | Cable 4 m |

* I de første højttalere blev der brugt 2 enkeltstik sort stik nr. 7210483, rødt stik nr. 7210484

* The first loudspeakers were fitted with 2 separate sockets, black socket no. 7210483, red socket no. 7210484

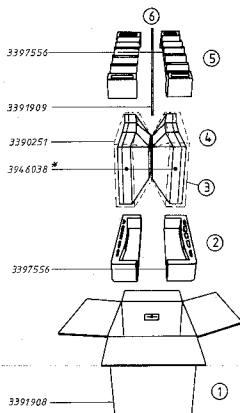
Diagram



Elektrisk styklister List of Electrical Parts

| | | | | | |
|----|----------------------|----------------|----|---------|---------------|
| R1 | 5104012 4.7 Ω 10% 3W | | | | |
| C1 | 4200337 | 10 µF 20% 23V | C3 | 4200273 | 15 µF 20% 23V |
| C2 | 4200387 | 4.7 µF 20% 23V | | | |
| L1 | 6850153 | Coil 1mH | L3 | 6850144 | Coil 0.33mH |
| L2 | 6850019 | Coil 0.33mH | | | |

Pakke procedure
Packing procedure



* Folie 3946038 leveres i metermål.

* Foil 3946038 is sold by the metre.

Technical specifications

| | |
|-------------------------------|------------------------------|
| RMS power handling capacity | 45 watts |
| Music power handling capacity | 60 watts |
| Impedance | 8 ohms |
| Frequency range +4 -8 dB | 48-20,000 Hz |
| Power at 96 dB SPL | 2.5 watts |
| Sensitivity 1 W | 92 dB |
| Distortion 250-1000 Hz | <1% |
| Distortion >1000 Hz | <1% |
| Acoustic principle | ABR, Auxiliary Bass Radiator |
| ABR unit | 15 x 33 cm |
| Woofer | 6 1/2" - 16 cm |
| Tweeter | 1" - 25 mm |
| Crossover frequency | 2500 Hz |
| Net. volume | 16 litres |
| Dimensions WxHxD | 54 x 40.5 x 16 cm |
| Weight | 7.5 kg |

Subject to change without notice

Oversigt over tilbehør til RL45 Survey of accessories for RL45

3124101 Opspændingsplade til
lette skillevægge
8960220 Loftssøjle
8960187 Understel
8960206 Indstillelig vægbeslag
3390263 Pose m. dele til
indstillelig vægbeslag

Wall plate for light partition walls

Ceiling Bracket
Stand
Wall Bracket
Bag w. part for Wall Bracket

Loftssøjle, 8960220
se side 1-5

Ceiling Bracket, 8960220
see page 1-5

Understel, 8960187
se side 1-6

Stand, 8960187
see page 1-6

Adskillelse
se side 1-7

Disassembly
see page 1-7

Service tips
se side 1-8

Service Tips
see page 1-8

Mekanisk stykliste List of Mechanical Parts

Skrueoversigt Survey of screws

Ikke viste dele Parts not shown

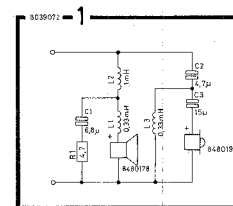
Diagram

Elektrisk stykliste List of Electrical Parts

| | | | |
|------|---------|--------------------------|----------------------------|
| 9101 | 3940146 | Dysehånd | Ribbon |
| 9102 | 3340097 | Pakning | Gasket |
| 9103 | 8480199 | Diakant højttaler | Tweeter |
| 9104 | 3031143 | Beslag | Fitting |
| 9106 | 8039072 | Delefilter | Crossover network |
| 9107 | 3940186 | Dysehånd m. tryk | Ribbon with print |
| 9108 | 3440099 | Buffel m. stof | Baffle with cloth |
| 9109 | 3320095 | Ramme f. kabinet | Frame for cabinet |
| | 3340055 | Pakning til ramme | Gasket for frame |
| 9110 | 3907045 | Gummiklods | Rubber block |
| 9111 | 8480178 | Bas højttaler | Woofer |
| | 3340048 | Pakning f. bas højttaler | Gasket for woofer |
| 9112 | 3031124 | Beslag | Fitting |
| 9116 | 3414857 | Kabinet | Cabinet |
| 9117 | 3512049 | Følstykke | Felt piece |
| 9118 | 7210509 | Dobbelstikterminal | Double connection terminal |
| 9119 | 3031110 | Beslag ophæng | Fitting for wall mounting |
| 9120 | 2514050 | Støttebøjle m. beslag | Support bow with fitting |

| | | | |
|---|---------|------------|------------|
| 1 | 2019012 | Skrue 4x50 | Screw 4x50 |
| 2 | 2019011 | Skrue 4x16 | Screw 4x16 |
| 3 | 2019013 | Skrue 4x40 | Screw 4x40 |
| 4 | 2019009 | Skrue 4x12 | Screw 4x12 |
| 5 | 2019123 | Skrue 3x10 | Screw 3x10 |

| | | |
|---------|-----------------------|---------------------------|
| 3031109 | Standard beslag | Standard mounting bracket |
| 2044015 | Stilleskrue | Adjustment screw |
| 3922018 | Rock-wool blok, lille | Rock-wool block, small |
| 3922019 | Rock-wool blok, stor | Rock-wool block, large |
| 6270167 | Ledning 4 m | Cable 4 m |
| 3506112 | Bedøjelingsanvisning | Owner's manual |
| 3391906 | Yderneske | Outer carton |
| 3391909 | Indlæg | Insert |
| 3397556 | Skumemballasje sat | Foam packing set |
| 3390277 | Folie pose | Foil bag |



| | | | |
|----|---------|----------------|------------------------|
| R1 | 5104012 | 4.7 Ω 10% 3W | |
| C1 | 4200457 | 6.8 µF 20% 35V | C3 |
| C2 | 4200387 | 4.7 µF 20% 23V | 4200273 1.5 µF 20% 23V |

For udskiftning af spoler L1 - L3 bestilles komplet delefilter.

When replacing coils L1 - L3, order complete crossover network.

Technical specifications

RL 45.2

| | |
|---------------------------------|---------------------------|
| RMS power handling capacity | 45 watts |
| Musical power handling capacity | 60 watts |
| Impedance | 8 ohms |
| Frequency range ± 4 -8 dB | 48-20,000 Hz |
| Power at 96 dB SPL | 2.5 watts |
| Sensitivity 1 W | 92 dB |
| Acoustic principle | Bass Reflex |
| Woofer | 6 $\frac{1}{2}$ " - 16 cm |
| Tweeter | $\frac{3}{4}$ " - 1.9 cm |
| Crossover frequency | 2500 Hz |
| Net. volume | 16 litres |
| Dimensions W x H x D | 54 x 40.5 x 16 cm |
| Weight | 6.8 kg |

Subject to change without notice

Technical specifications
RL 60.2

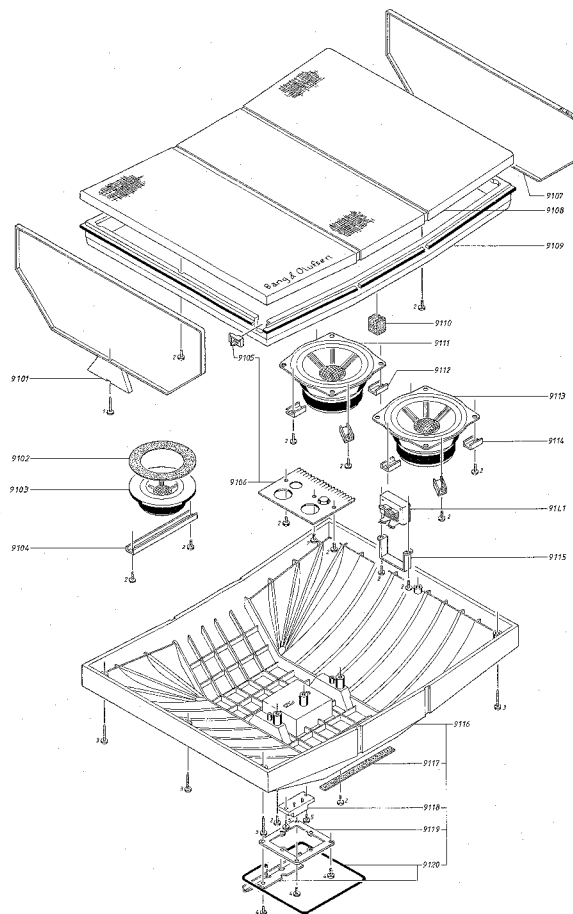
| | |
|-------------------------------|--------------------|
| RMS power handling capacity | 60 watts |
| Music power handling capacity | 90 watts |
| Impedance | 8 ohms |
| Frequency range +4 -8 dB | 42-20,000 Hz |
| Power at 96 dB SPL | 2 watts |
| Sensitivity 1 W | 93 dB |
| Acoustic principle | Basex Reflex |
| Woofer | 2 units 5" - 13 cm |
| Tweeter | 1" - 2.5 cm |
| Crossover frequency | 3500 Hz |
| Net. volume | 19 litres |
| Dimensions W x H x D | 54 x 40.5 x 18 cm |
| Weight | 6.3 kg |

Subject to change without notice

1-14

RL60.2, TYPE 6513

Bang & Olufsen



Mekanisk stykliste List of Mechanical Parts

| | | | |
|------|---------|-----------------------|----------------------------|
| 9101 | 3940138 | Pyntebånd | Ribbon |
| 9102 | 3340066 | Pakning | Gasket |
| 9103 | 8480200 | Diskant højttaler | Tweeter |
| 9104 | 3031143 | Beslag | Fitting |
| 9105 | 7210507 | DIN stik | DIN socket |
| 9106 | 8039073 | Delefilter | Crossover network |
| 9107 | 3940187 | Pyntebånd m. tryk | Ribbon with print |
| 9108 | 3449098 | Bæffel m. stof | Baffle with cloth |
| 9109 | 3320094 | Ramme f. kabinet | Frame for cabinet |
| | 3340055 | Pakning til ramme | Gasket for frame |
| 9110 | 3907045 | Gummiklods | Rubber block |
| 9111 | 8480177 | Bas højttaler | Woofer |
| 9112 | 3031124 | Beslag | Fitting |
| 9113 | 8480177 | Bas højttaler | Woofer |
| 9114 | 3031124 | Beslag | Fitting |
| 9115 | 2510151 | Bøjle | Clamp |
| 9116 | 3414857 | Kabinet | Cabinet |
| 9117 | 3912049 | Filterstykke | Felt piece |
| 9118 | 7210509 | Dobbelt stikterminal | Double connection terminal |
| 9119 | 3031110 | Beslag ophæng | Fitting for wall mounting |
| 9120 | 2514050 | Støttebøjle m. beslag | Support bow with fitting |

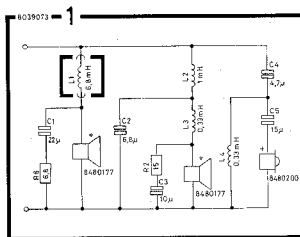
Skrueoversigt Survey of screws

| | | | |
|------|---------|--------------|-------------|
| 91L1 | 6850186 | Spole 6,8 mH | Coil 6,8 mH |
| 1 | 2019012 | Skrue 4x50 | Screw 4x50 |
| 2 | 2019011 | Skrue 4x16 | Screw 4x16 |
| 3 | 2019013 | Skrue 4x40 | Screw 4x40 |
| 4 | 2019009 | Skrue 4x12 | Screw 4x12 |
| 5 | 2013123 | Skrue 3x10 | Screw 3x10 |

Ikke viste dele Parts not shown

| | | |
|---------|------------------------|---------------------------|
| 3031109 | Standard beslag | Standard mounting bracket |
| 2044015 | Stilleskrue | Adjustment screw |
| 3922018 | Rock-wool klods, lille | Rock-wool block, small |
| 3922019 | Rock-wool klods, stor | Rock-wool block, large |
| 6270167 | Ledning 4 m | Cable 4 m |
| 3506113 | Bedrøningsanvisning | Owner's manual |
| 3391907 | Ydereske | Outer carton |
| 3391909 | Indlæg | Insert |
| 3397556 | Skumemballage sæt | Foam packing set |
| 3390277 | Folie pose | Foil bag |

Diagram



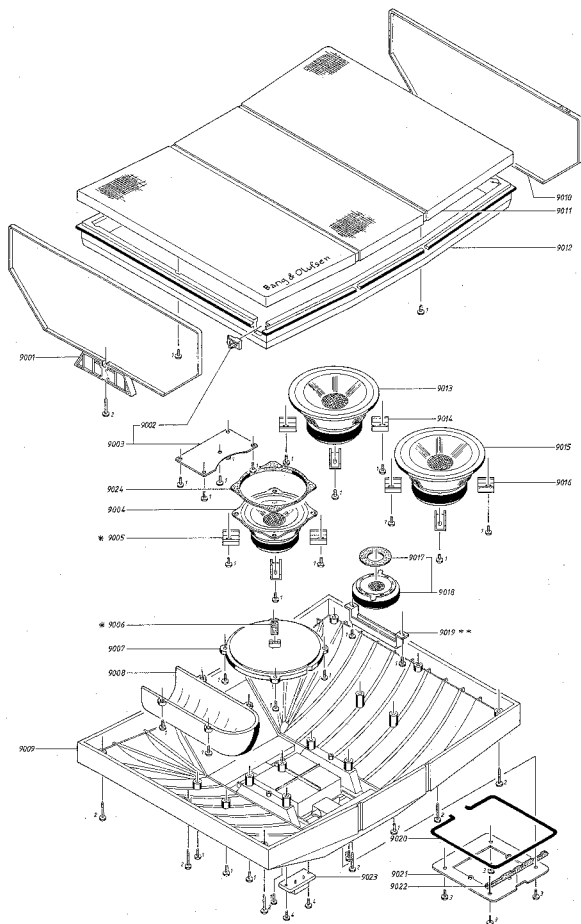
Elektrisk stykliste List of Electrical Parts

| | | | | | |
|----|---------|---------------------|----|---------|---------------------|
| R2 | 5100209 | 15 Ω 10% 3W | R6 | 5100242 | 6.8 Ω 5% 3W |
| C1 | 4200468 | 22 μ F 20% 23V | C4 | 4200387 | 4.7 μ F 20% 23V |
| C2 | 4200336 | 6.8 μ F 20% 23V | C5 | 4200273 | 15 μ F 20% 23V |
| C3 | 4200337 | 10 μ F 20% 23V | | | |

For udskiftning af spoler L2 - L4 bestilles komplet delefilter.

When replacing coils L2 - L4, order complete crossover network.

RL 140, TYPE 6501



Mekanisk stykliste List of Mechanical Parts

| | | | |
|--------|---------|-----------------------------------|------------------------------------|
| 9001 | 3940158 | Pyntebånd uden tryk | Ribbon without print |
| 9002 | 7210506 | DIN-suk | DIN socket |
| 9003 | 8006015 | Delefilter | Crossover network |
| 9004 | 8480190 | Mellemtone-højttaler | Mid-range loudspeaker |
| 9005* | 3031124 | Beslag f. mellemtone-højttaler | Fitting for mid-range loudspeaker |
| 9006* | 3907045 | Gummiklods | Rubber block |
| 9007 | 3160030 | Dækset f. mellemtone-højttaler | Cover f. mid-range loudspeaker |
| 9008 | 3458410 | Rør f. bas port | Tube f. port |
| 9009 | 3414557 | Kabinet | Cabinet |
| 9010 | 3940159 | Pyntebånd med tryk | Ribbon with print |
| 9011 | 3440089 | Baffel m. stof og rør f. bas port | Baffle with cloth and tube f. port |
| 9012 | 3320101 | Ramme m. pakning f. kabinet | Frame with gasket for cabinet |
| | 3340062 | Pakning f. ramme | Gasket for frame |
| 9013 | 8480186 | Bas-højttaler | Woofer |
| 9014 | 3031124 | Beslag f. bas-højttaler | Fitting for woofer |
| 9015 | 8480186 | Bas-højttaler | Woofer |
| 9016 | 3031124 | Beslag f. bas-højttaler | Fitting for woofer |
| 9017 | 3340064 | Pakning f. diskant-højttaler | Gasket for tweeter |
| 9018 | 8480191 | Diskant højttaler | Tweeter |
| 9019** | 3031143 | Beslag f. diskant-højttaler | Fitting for tweeter |
| 9020 | 2514052 | Støttebøjle | Support bow |
| 9021 | 3031115 | Beslag ophæng | Fitting for wall mounting |
| 9022 | 3907048 | Dæmpgummi f. støttebøjle | Damping rubber f. support bow |
| 9023 | 7210509 | Dobbelt stikterminal | Double connection terminal |
| 9024 | 3340063 | Pakning f. mellemtone-højttaler | Gasket for mid-range loudspeaker |

Skrueoversigt Survey of screws

| | | | |
|---|---------|----------------|----------------|
| 1 | 2019011 | Skrue 4 x 16 | Screw 4 x 16 |
| 2 | 2019012 | Skrue 4 x 50 | Screw 4 x 50 |
| 3 | 2015113 | Skrue 3,5 x 16 | Screw 3,5 x 16 |
| 4 | 2013123 | Skrue 3 x 10 | Screw 3 x 10 |

Ikke viste dele Parts not shown

| | | |
|---------|----------------------------|----------------------------|
| 2044015 | Stilleskrue | Adjustment screw |
| 3031116 | Standard beslag | Standard mounting bracket |
| 6270167 | Ledning 4 m | Cable 4 m |
| 3397587 | Skumemballage sæt | Foam packing set |
| 3391961 | Yderkasse | Outer carton |
| 3390274 | Pose f. højttaler | Bag for loudspeaker |
| 3506111 | Bedrejningsanvisning | Owner's manual |
| 3922020 | Rock-wool klods 150x450 mm | Rock-wool block 150x450 mm |
| 3922021 | Rock-wool klods 75x450 mm | Rock-wool block 75x450 mm |
| 3922026 | Rock-wool klods 120x150 mm | Rock-wool block 120x150 mm |
| 3922022 | Rock-wool klods 75x200 mm | Rock-wool block 75x200 mm |
| 3922027 | Rock-wool klods 49x500 mm | Rock-wool block 49x500 mm |

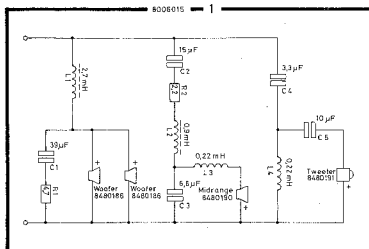
*I højttalere med apparat nr. før 3397001 bruges gummiklods pos. nr. 9006 efter 3397001 bruges beslag pos.nr. 9005.

*In loudspeakers with serial no. before 3397001 rubber block pos. no. 9006 is used, after no. 3397001 fitting pos. no. 9005 is used.

**I de første højttalere blev beslag nr. 3031125 brugt.

**In the first loudspeakers fitting no. 3031125 was used.

Diagram



Elektrisk stykliste
List of Electrical Parts

| | | | | | |
|----|---------|---------------------|----|---------|---------------------|
| R1 | 5100310 | 4.7 Ω 10% 5W | R2 | 5100296 | 2.2 Ω 10% 7W |
| C1 | 4200673 | 39 μ F 20% 35V | C4 | 4200125 | 3.3 μ F 20% 23V |
| C2 | 4200456 | 15 μ F 20% 35V | C5 | 4200337 | 10 μ F 20% 23V |
| C3 | 4200457 | 6.8 μ F 20% 35V | | | |

For udskiftning af spoler L1 - L4 bestilles komplet delefilter.

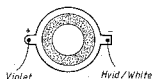
When replacing coils L1 - L4, order complete crossover network.

Technical specifications

| | |
|-------------------------------|--------------------------|
| RMS power handling capacity | 140 watts |
| Music power handling capacity | 200 watts |
| Impedance | 8 ohms |
| Frequency range +4 -8 dB | 40-20,000 Hz |
| Power at 96 dB SPL | 2 watts |
| Sensitivity 1 W | 93 dB |
| Distortion 250-1000 Hz | <0.7% |
| Distortion >1000 Hz | <0.5% |
| Acoustic principle | Bass Reflex |
| Woofer | 2 units 6 1/2" - 16.5 cm |
| Midrange | 5" - 13 cm |
| Tweeter | 1" - 2.5 cm |
| Crossover frequency | 800/3000 Hz |
| Net. volume | 38 litres |
| Dimensions W x H x D | 70 x 50 x 24 cm |
| Weight | 15 kg |

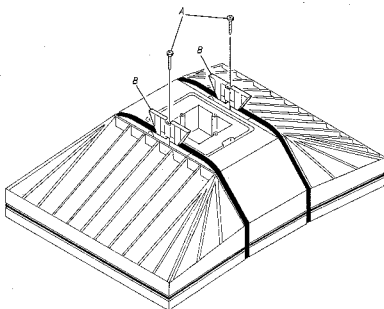
Subject to change without notice

Polaritet på diskantøjttaler
Polarity on tweeter



Adskillelse

Disassembly



Aftag de to skruer A.

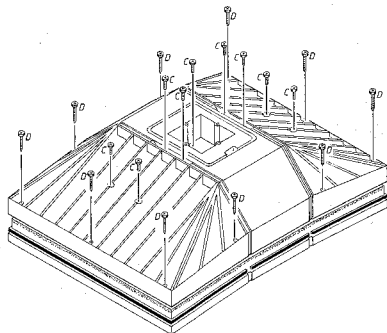
Remove the two screws A.

De to spændestykker B med pyntebånd kan nu aftages.

The two triangles B with ribbon can now be removed.

NB! Vær opmærksom på at det kun er det øverste bånd, der er forsynet med tekst, samt at teksten vendes korrekt ved samling af højttaleren igen.

NB! Note that only the upper ribbon is supplied with text, and make sure the text is turned correctly when re-assembling.



Aftag de ni skruer mærket C, og de ti skruer mærket D.

Remove the nine screws marked C and the ten screws marked D.

Bagparten kan nu tages af.

The rear part can now be removed.

Ved samling af højttaleren igen anbefales et tilspændingsmoment på 16,5 kp/cm.

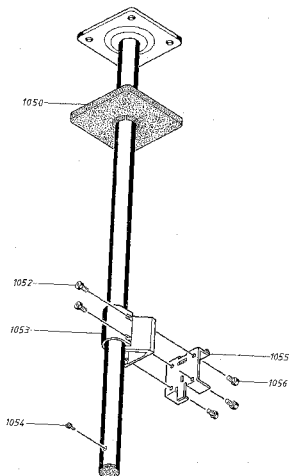
When re-assembling the loudspeaker, a torque of 16.5 kp/cm is recommended.

Oversigt over tilbehør til RL140
Survey of accessories for RL140

8960276 Spiraledning
3124107 Opspændingsplade til lette
skillevægge
8960230 Loftsstøje
8960197 Understel
8960216 Indstillelig vægbeslag
3390263 Pose m. dele til indstillelig
vægbeslag

Red Line Cord
Wall plate for light partition walls
Ceiling Bracket
Stand
Wall Bracket
Bag w. parts for Wall Bracket

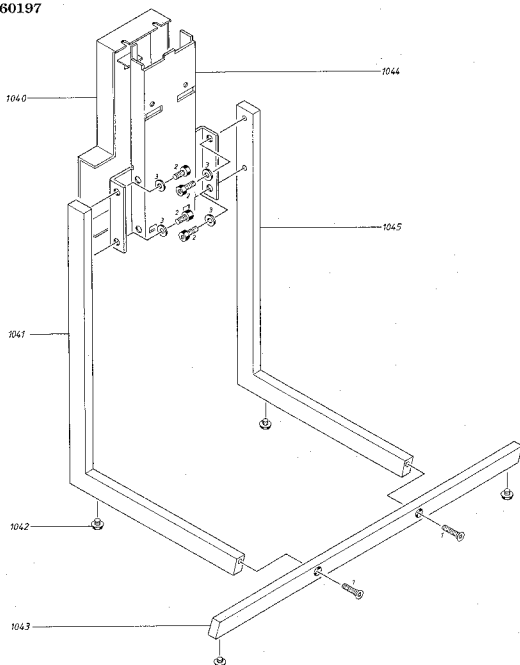
Loftsstøje, 8960230
Ceiling Bracket, 8960230



1050 3182224 Dæksel
1052 2044035 Skruer AM5x10
1053 2644000 Spændestykke
1054 2042201 Skruer AM4x4
1055 3031116 Standard beslag
1056 2044035 Skruer AM5x10
3390262 Pose m. dele
3506105 Monterings instruktion

Cover plate
Screw AM5x10
Triangle with ribbon
Screw AM4x4
Standard mounting bracket
Screw AM5x10
Bag w. parts
Mounting instruction

Understel, 8960197
Stand, 8960197

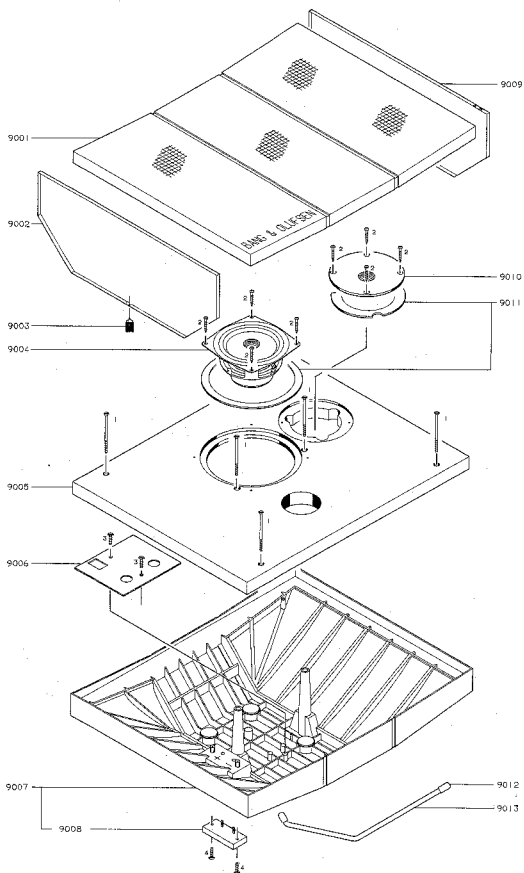


| | | | |
|------|---------|------------------------|---------------------------|
| 1040 | 3162227 | Dækplade | Cover plate |
| 1041 | 3930066 | Endestykke, venstre | End piece, left |
| 1042 | 3035049 | Gummifod | Rubber foot |
| 1043 | 2568811 | Skinne | Bar |
| 1044 | 3031131 | Beslag | Mounting bracket |
| 1045 | 3930085 | Endestykke, højre | End piece, right |
| | 2316007 | Stilleskrue | Adjustment screw |
| | 3031116 | Standard beslag | Standard mounting bracket |
| | 3390258 | Pose m. dele | Bag w. parts |
| | 2644029 | Skrue M5x6 | Screw M5x6 |
| | 3640016 | Sekskantnøgle 4 mm | Hexagon spanner 4 mm |
| | 3640020 | Sekskantnøgle 2,5 mm | Hexagon spanner 2.5 mm |
| | 3397565 | Skumembullage | Foam packing |
| | 3391964 | Omslag | Wrapper |
| | 3506087 | Monterings instruktion | Mounting instruction |

Skrueoversigt Survey of screws

| | | | |
|---|---------|-------------|-------------|
| 1 | 2042049 | Skrue M4x16 | Screw M4x16 |
| 2 | 2044012 | Skrue M5x10 | Screw M5x10 |
| 3 | 2622028 | Skrive | Washer |

RL 35, TYPE 6515



List of Mechanical Parts

| | | | | | |
|------|---------|-------------------------|------|---------|----------------------------|
| 9001 | 3450698 | Frame with cloth | 9008 | 7210662 | Double connection terminal |
| 9002 | 3940195 | Ribbon without print | 9009 | 3940197 | Ribbon with print |
| 9003 | 2630023 | Clamping pin | 9010 | 8480181 | Tweeter |
| 9004 | 8480198 | Woofer | 9011 | 3340050 | Set of gaskets |
| 9005 | 3440103 | Front frame with gasket | 9012 | 3341063 | Rubber foot |
| 9006 | 3947202 | Gasket, by the meter | 9013 | 2514063 | Support bow |
| 9007 | 8039076 | Crossover network | | | |
| | 3414054 | Cabinet | | | |

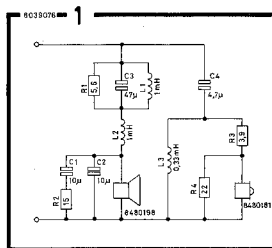
Survey of screws

| | | | | | |
|---|---------|----------------|---|---------|--------------|
| 1 | 2015112 | Screw 3.5 x 50 | 3 | 2019009 | Screw 3 x 12 |
| 2 | 2084046 | Screw 3.5 x 25 | 4 | 2013123 | Screw 3 x 10 |

Parts not shown

| | | | |
|---------|-----------------------|---------|-------------------------|
| 3390296 | Bag | 3922031 | Damping material, small |
| 3391888 | Outer carton | 6270167 | Cable 4 m |
| 3397615 | Foam packing, set | 3506132 | Owner's manual |
| 3922030 | Damping material, big | | |

List of Electrical Parts



| | | | | | |
|----|---------|---------------|----|---------|----------------|
| R1 | 5100297 | 5.6Ω 10% 3W | R3 | 5100295 | 3.9Ω 10% 3W |
| R2 | 5100200 | 15Ω 10% 3W | R4 | 5100196 | 22Ω 10% 3W |
| C1 | 4200337 | 10 μF 20% 23V | C3 | 4200729 | 47 μF 20% 23V |
| C2 | 4200337 | 10 μF 20% 23V | C4 | 4200387 | 4.7 μF 20% 23V |

When replacing coils L1-L3, order complete crossover network.

Technical specifications

| | |
|-------------------------------|-------------------|
| RMS power handling capacity | 35 watts |
| Music power handling capacity | 50 watts |
| Impedance | 8 ohms |
| Frequency range +4 -8 dB | 48-20,000 Hz |
| Power at 96 dB SPL | 2.5 watts |
| Sensitivity 1 W | 92 dB |
| Distortion 250-1000 Hz | <1% |
| Distortion >1000 Hz | <0.7% |
| Cabinet principle | Bass Reflex |
| Woofer | 5" - 13 cm |
| Tweeter | 3/4" - 1.8 cm |
| Crossover frequency | 3500 Hz |
| Net. volume | 10 litres |
| Dimensions W x H x D | 40 x 32 x 12.5 cm |
| Weight | 3.5 kg |

Subject to change without notice

Bang&Olufsen

Beolab Penta

Type 6601, 6602, 6603,
6604, 6605

Beovox Penta

Type 6611

3538657 INDKLÆBES I SERVICEANVISNING BEVOX 4
TO PASTE INTO SERVICE MANUAL BEVOX 4

SERVICEANVISNING
SERVICE MANUAL



INDHOLD

| | |
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| Mekanisk stykliste | 2-11 |
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DIAGRAMFORKLARING

På diagrammet er der angivet typenumre på transistorer og IC'er i de tilfælde hvor typenummeret er entydigt for komponentens placering i kredsløbet – f.eks. TR20/BC 557B

Hvis positionsnummeret er efterfulgt af en stjerne skal reservedelsnummeret benyttes, da denne komponent er specielt udvalgt – f.eks. TR102*.

Koordinatsystem

De største printplader er forsynet med et koordinatsystem. Komponenterne på disse printplader er på diagrammet forsynet med en koordinatbetegnelse, som fortæller i hvilket felt på printpladen de er placeret (mindre skrifttype end positionsnummeret – f.eks. B3).

Ledningsforbindelser

Ledningsforbindelser på diagrammet er samlet i »bunder«. De enkelte ledninger er forsynet med koder, der fortæller hvortil de går.

INTERN FORBINDELSE
PÅ EN DIAGRAMSIDE

Interne forbindelser på en diagramside angives med et tal. Knækket på ledningen viser i hvilken retning den anden ende af ledningen findes.

EXPLANATION OF DIAGRAM

Type numbers of transistors and IC's have been indicated on the diagram in those cases where the type number is unambiguous for the position of the component in a circuitry – e.g. TR20/BC 557B.

If the position number is followed by an asterisk the spare part number **must be used** because this component has been especially selected – e.g. TR102*.

System of Co-ordinates

The largest PC-boards have been provided with a co-ordinate system. The components on these PC-boards are provided with a grid reference on the diagram indicating in what grid they are positioned on the PC-board (smaller typing than position numbers – e.g. B3).

Wiring Connections

The wiring connections on the diagram are assembled in »bundles«. The individual wires are coded to indicate to where they are leading.

INTERNAL CONNECTION
ON ONE DIAGRAM PAGE

Internal connections on a diagram page are indicated by a number. The bend of the wire indicates in which direction the other end of the wire may be found.

Forsyningsspændinger

En pil og spændingen viser, hvor forsyningsspændingerne går ind i et print.

Eksempel: (7 CON.) f.eks. ved siden af forsyningsspændingen angiver det antal steder, spændingen går ind på denne diagramside.

Symbol for sikkerhedskomponenter

Ved udskiftning af komponenter med dette symbol skal der anvendes komponenter med samme reservedelsnummer. Den nye komponent skal monteres på samme måde som den udskiftede.

MÅLEBETINGELSER

Alle DC spændinger er målt i forhold til stel, med voltmeter med en indgangsmodstand på 10 Mohm.

Spændingerne er målt uden signaltilføring.

Supply Voltage

An arrow and the voltage show where the supply voltages are fed to a PCB.

Example: (7 CON.) next to the supply voltage indicates the number of places where to find the voltages in this diagram.

Symbol for Safety Components



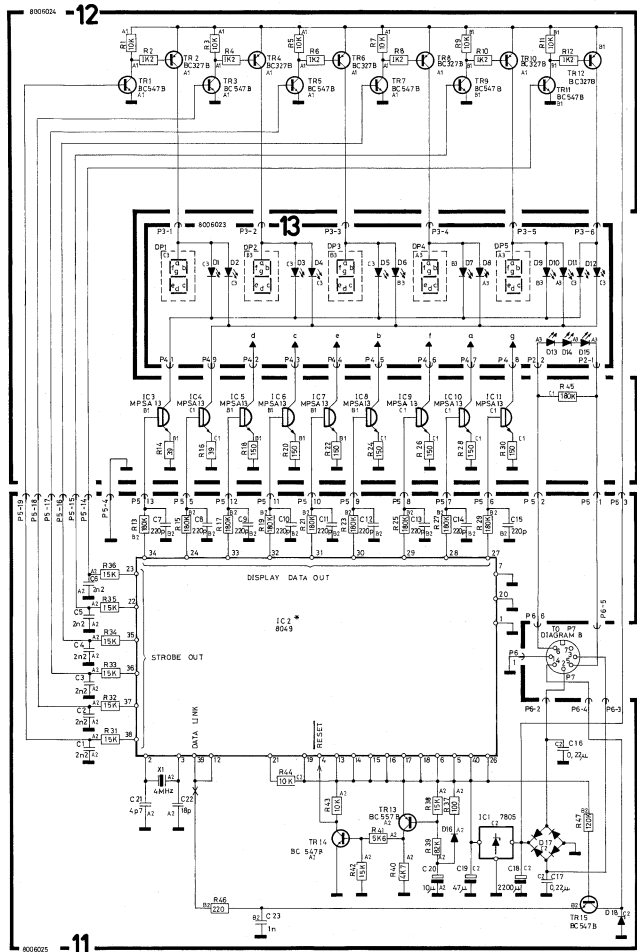
When replacing components with this symbol components with identical part numbers are to be used. The new component must be fitted in the same way as the one replaced.

MEASURING CONDITIONS

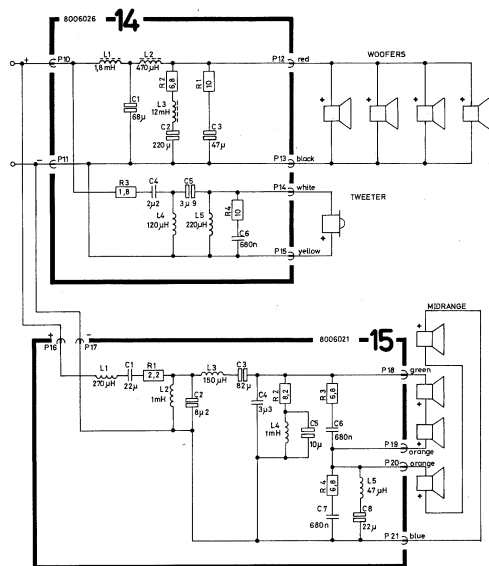
All DC voltages have been measured in relation to ground with voltmeter with an input resistance of 10 Mohms.

The voltages have been measured without any supply of signal.

DIAGRAM A, Display



(X CON.) = NUMBER OF VOLTAGE CONNECTIONS



Transistors

| 17 | 18 | 19 | 20 | 24 | 27 | 44 | |
|----|----|----|----|----|----|----|--|
| | | | | | | | |

| 102 | 103 | 105 | 123 | 124 | 136 | | |
|-----|-----|-----|-----|-----|-----|--|--|
| | | | | | | | |

| 209 | 214 | 215 | 217 | | | | |
|-----|-----|-----|-----|--|--|--|--|
| | | | | | | | |

| | | | | | | | |
|-------|----------|----|------------|--------|----------|----|------------|
| 1TR3 | *8320396 | 24 | MPF 4392 | 1TR23 | 8320646 | 44 | BF 858 |
| | | 24 | 2N 4392 | 1TR28 | | | |
| | | 24 | 2N 5639 | | | | |
| 1TR6 | 8320454 | 17 | BF 423 | 2TR1 | 8320108 | 20 | BC 172B |
| | | | | 2TR2 | | 20 | BC 183B/BK |
| 1TR7 | 8320152 | 20 | BC 212B/BK | | | 17 | BC 183BL |
| | | 17 | BC 212BL | | | 20 | BC 238B |
| | | 20 | BC 251B | | | 20 | BC 548B |
| | | 18 | BC 307B | | | | |
| | | 20 | BC 557B | 2TR3 | 8320595 | 20 | BC 337-40 |
| | | 27 | 2SA 844 | | | | |
| 1TR8- | 8320641 | | SC 2240 GR | 2TR4 | 8320152 | 20 | BC 212B/BK |
| 1TR10 | | | | | | 17 | BC 212BL |
| | | | | | | 20 | BC 251B |
| | | | | | | 18 | BC 307B |
| 1TR11 | 8320108 | 20 | BC 172B | | | 20 | BC 557B |
| | | 20 | BC 183B/BK | | | 27 | 2SA 844 |
| | | 17 | BC 183BL | | | | |
| | | 20 | BC 238B | 2TR5 | 8320108 | 20 | BC 172B |
| | | 20 | BC 548B | 2TR6 | | 20 | BC 183B/BK |
| | | | | 2TR8- | | 17 | BC 183BL |
| 1TR12 | 8320152 | 20 | BC 212B/BK | 2TR10 | | 20 | BC 238B |
| 1TR15 | | 17 | BC 212BL | | | 20 | BC 548B |
| | | 20 | BC 251B | | | | |
| | | 18 | BC 307B | | | | |
| | | 20 | BC 557B | 7TR1- | *8320396 | 24 | MPF 4392 |
| | | 27 | 2SA 844 | 7TR3 | | 24 | 2N 4392 |
| | | | | | | 24 | 2N 5639 |
| 1TR16 | 8320454 | 17 | BF 423 | | | | |
| 1TR17 | 8320108 | 20 | BC 172B | 11TR13 | 8320152 | 20 | BC 212B/BK |
| | | 20 | BC 183B/BK | | | 17 | BC 212BL |
| | | 17 | BC 183BL | | | 20 | BC 251B |
| | | 20 | BC 238B | | | 18 | BC 307B |
| | | 20 | BC 548B | | | 20 | BC 557B |
| | | | | | | 27 | 2SA 844 |
| 1TR18 | 8320152 | 20 | BC 212B/BK | 11TR14 | 8320097 | 20 | BC 182B/BK |
| | | 17 | BC 212BL | 11TR15 | | 17 | BC 182BL |
| | | 20 | BC 251B | | | 20 | BC 237B |
| | | 18 | BC 307B | | | 20 | BC 547B |
| | | 20 | BC 557B | | | | |
| | | 27 | 2SA 844 | | | | |

IC's

| | | | |
|-------|---------|----|------------|
| 12TR1 | 8320097 | 20 | BC 182B/BK |
| | | 17 | BC 182BL |
| | | 20 | BC 237B |
| | | 20 | BC 547B |

| | | | |
|-------|---------|----|--------------|
| 12TR2 | 8320331 | 20 | BC 328-25/18 |
|-------|---------|----|--------------|

| | | | |
|-------|---------|----|------------|
| 12TR3 | 8320097 | 20 | BC 182B/BK |
| | | 17 | BC 182BL |
| | | 20 | BC 237B |
| | | 20 | BC 547B |

| | | | |
|-------|---------|----|--------------|
| 12TR4 | 8320331 | 20 | BC 328-25/18 |
|-------|---------|----|--------------|

| | | | |
|-------|---------|----|------------|
| 12TR5 | 8320097 | 20 | BC 182B/BK |
| | | 17 | BC 182BL |
| | | 20 | BC 237B |
| | | 20 | BC 547B |

| | | | |
|-------|---------|----|--------------|
| 12TR6 | 8320331 | 20 | BC 328-25/18 |
|-------|---------|----|--------------|

| | | | |
|------|---------|-----|--------------|
| 11C1 | 8340202 | 102 | CD 4066 BCN |
| | | 102 | HEF 4066 BP |
| | | 102 | MC 14066 BCP |
| | | 102 | MSM 4066 RS |

| | | | |
|------|---------|-----|-------------|
| 11C2 | 8340763 | 136 | LF353-TL072 |
|------|---------|-----|-------------|

| | | | |
|------|---------|-----|-------------|
| 11C3 | 8340048 | 103 | MC 1458 CP1 |
| | | 103 | MC 1458 N |
| | | 103 | MC 1458 P |
| | | 103 | SFC 2458 DC |

| | | | |
|------|---------|-----|-------------|
| 11C5 | 8340064 | 105 | UA 7815 |
| | | 105 | UA 7815 UC |
| | | 105 | LM 340 T-15 |

| | | | |
|------|---------|-----|-------------|
| 11C6 | 8340240 | 123 | LM 320 T-15 |
| | | 123 | MC 7915 CT |
| | | 123 | UA 7915 UC |

| | | | |
|-----|---------|------|-------|
| 1D1 | 8300466 | B125 | C1500 |
|-----|---------|------|-------|

| | | | |
|------|---------|-----|---------|
| 1D2- | 8300058 | 217 | SFD 184 |
| 1D12 | | 209 | 1N 4148 |
| | | 215 | 1N 4148 |

| | | | |
|------|---------|-----|-----------|
| 1D15 | 8300409 | 214 | BAV 20-25 |
|------|---------|-----|-----------|

| | | | |
|------|---------|---|-----|
| 1D16 | 8300541 | Z | 3V3 |
|------|---------|---|-----|

| | | | |
|-------|---------|-----|---------|
| 1D17- | 8300058 | 217 | SFD 184 |
| 1D20 | | 209 | 1N 4148 |
| | | 215 | 1N 4148 |

| | | | |
|-------|---------|----|------------|
| 12TR7 | 8320097 | 20 | BC 182B/BK |
| | | 17 | BC 182BL |
| | | 20 | BC 237B |
| | | 20 | BC 547B |

| | | | |
|-------|---------|----|--------------|
| 12TR8 | 8320331 | 20 | BC 328-25/18 |
|-------|---------|----|--------------|

| | | | |
|-------|---------|----|------------|
| 12TR9 | 8320097 | 20 | BC 182B/BK |
| | | 17 | BC 182BL |
| | | 20 | BC 237B |
| | | 20 | BC 547B |

| | | | |
|--------|---------|----|--------------|
| 12TR10 | 8320331 | 20 | BC 328-25/18 |
|--------|---------|----|--------------|

| | | | |
|--------|---------|----|------------|
| 12TR11 | 8320097 | 20 | BC 182B/BK |
| | | 17 | BC 182BL |
| | | 20 | BC 237B |
| | | 20 | BC 547B |

| | | | |
|--------|---------|----|--------------|
| 12TR12 | 8320331 | 20 | BC 328-25/18 |
|--------|---------|----|--------------|

| | | | |
|------|---------|-----|-------------|
| 21C1 | 8340048 | 103 | MC 1458 CP1 |
| | | 103 | MC 1458 N |
| | | 103 | MC 1458 P |
| | | 103 | SFC 2458 DC |

| | | | |
|------|---------|----|---------|
| 51C1 | 8340054 | 19 | MPS A13 |
| | | 19 | TPS A13 |

| | | | |
|------|---------|-----|------|
| 11C1 | 8340212 | 105 | 7805 |
|------|---------|-----|------|

| | | | |
|------|---------|-----|---------|
| 11C2 | 8340836 | 124 | UP 8049 |
|------|---------|-----|---------|

| | | | |
|--------|---------|----|---------|
| 12IC3- | 8340054 | 19 | MPS A13 |
|--------|---------|----|---------|

| | | | |
|--------|--|----|---------|
| 12IC11 | | 19 | TPS A13 |
|--------|--|----|---------|

| | | | |
|------|---------|-----|-----------|
| 1D21 | 8300407 | 209 | BZX79B 12 |
| | | 209 | BZX83B 12 |
| | | 209 | ZPD 12V |

| | | | |
|-----|---------|-----|---------|
| 2D1 | 8300058 | 217 | SFD 184 |
|-----|---------|-----|---------|

| | | | |
|------|--|-----|---------|
| 2D3- | | 209 | 1N 4148 |
|------|--|-----|---------|

| | | | |
|-----|--|-----|---------|
| 2D7 | | 215 | 1N 4148 |
|-----|--|-----|---------|

| | | | |
|-----|---------|-----|---------|
| 4D1 | 8300058 | 217 | SFD 184 |
|-----|---------|-----|---------|

| | | | |
|--|--|-----|---------|
| | | 209 | 1N 4148 |
|--|--|-----|---------|

| | | | |
|--|--|-----|---------|
| | | 215 | 1N 4148 |
|--|--|-----|---------|

Diodes

| | | | | | |
|-------|---------|---------------|--------|---------|----------------|
| 5D2 | 8300497 | KBU 6D | 13D1- | 8330162 | LED yellow |
| | | | 13D15 | | |
| 11D16 | 8300058 | 217 SFD 184 | | | |
| | | 209 1N 4148 | 13DP1- | 8330163 | Display |
| | | 215 1N 4148 | 13DP5 | | 7-segm. yellow |
| 11D17 | 8300466 | B125 C1500 | | | |
| 11D18 | 8300407 | 209 BZX79B 12 | | | |
| | | 209 BZX83B 12 | | | |
| | | 209 ZPD 12V | | | |

- △ betyder at statisk elektricitet kan ødelægge komponenten.
 △ indicates that static electricity may destroy the component.
 △ bedeutet, daß statische Elektrizität die Komponente zerstören kann.
 △ signifi que électricité statique peut detruire le composant.

- * Speciel udvalgt eller bearbejdet eksemplar.
 * Specially selected or adapted sample.
 * Speziell ausgewähltes und bearbeitets Exemplar.

LIST OF ELECTRICAL PARTS

Resistors not mentioned are standard resistors

Standard resistors:

Resistors 5% 1/2 W

| | X1 | X10 | X100 | X1K | X10K | X100K | X1M | X10M |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.0 | | 5011000 | 5011013 | 5011028 | 5011044 | 5010313 | 5011069 | 5011083 |
| 1.2 | 5011406 | 5011061 | 5011014 | 5011030 | 5011045 | 5011058 | 5010421 | |
| 1.5 | 5010727 | 5011002 | 5011015 | 5011031 | 5011046 | 5011059 | 5011071 | |
| 1.8 | 5010857 | 5010787 | 5011016 | 5011033 | 5011047 | | 5011072 | |
| 2.2 | 5011335 | 5010708 | 5010815 | 5011034 | 5011048 | 5011061 | 5011074 | |
| 2.7 | | 5010803 | 5011018 | 5010655 | 5011049 | 5011062 | 5011075 | |
| 3.3 | 5010255 | 5011007 | 5011019 | 5011037 | | 5011063 | 5010381 | |
| 3.9 | | 5010782 | 5011021 | 5010700 | 5011051 | | 5010392 | |
| 4.7 | 5010765 | 5011009 | 5011022 | 5010635 | 5010636 | 5011065 | 5011078 | |
| 5.6 | | 5011010 | 5011023 | 5011041 | | 5011066 | 5011079 | |
| 6.8 | 5010874 | 5011011 | 5011024 | 5011042 | 5010810 | 5011067 | 5011080 | |
| 8.2 | | 5011012 | 5011026 | 5011043 | 5010638 | 5011068 | 5011081 | |

Resistors 5% 1/4 W

| | X1 | X10 | X100 | X1K | X10K | X100K | X1M | X10M |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.0 | 5010592 | 5010506 | 5010685 | 5010940 | 5010059 | 5010049 | 5010054 | 5010638 |
| 1.2 | | 5010595 | 5010128 | 5010153 | 5010046 | 5010047 | 5010665 | |
| 1.5 | | 5010468 | 5010057 | 5010247 | 5010053 | 5010063 | 5010093 | |
| 1.8 | | 5010822 | 5010362 | 5010066 | 5010135 | 5010072 | 5010791 | |
| 2.2 | 5010682 | 5010448 | 5010092 | 5010064 | 5010079 | 5010120 | 5010245 | |
| 2.7 | 5010925 | 5010403 | 5010000 | 5010298 | 5010141 | 5010083 | 5010431 | |
| 3.3 | | 5010253 | 5010044 | 5010076 | 5010075 | 5010117 | 5010848 | |
| 3.9 | | 5010622 | 5010070 | 5010069 | 5010060 | 5010073 | 5010714 | |
| 4.7 | 5010888 | 5010411 | 5010058 | 5010048 | 5010045 | 5010077 | | |
| 5.6 | 5010706 | 5010151 | 5010067 | 5010041 | 5010061 | 5010071 | 5010658 | |
| 6.8 | 5010904 | 5010039 | 5010144 | 5010052 | 5010062 | 5010074 | | |
| 8.2 | 5010880 | 5010056 | 5010068 | 5010154 | 5010091 | 5010505 | | |

Amplifier, 8002915, PCB 1

| | | | | | |
|-----|---------|---------------------|------|---------|--------------------|
| R1 | 5020363 | 51.1 kΩ 1% 1/4W | R79 | 5020633 | 150 Ω 5% 0.35W |
| R4 | 5020126 | 113 kΩ 1% 1/4W | R95 | 5370341 | 100 Ω 20% 0.1W |
| R8 | 5020126 | 113 kΩ 1% 1/4W | R99 | 5100203 | 0.47 Ω 10% 2W |
| R11 | 5020363 | 51.1 kΩ 1% 1/4W | R100 | 5100203 | 0.47 Ω 10% 2W |
| R35 | 5220036 | 330 kΩ 10% 1/2W | R101 | 5100203 | 0.47 Ω 10% 2W |
| R56 | 5020200 | 2.1 kΩ 1% 1/4W | R102 | 5100203 | 0.47 Ω 10% 2W |
| R57 | 5020200 | 2.1 kΩ 1% 1/4W | R103 | 5100203 | 0.47 Ω 10% 2W |
| R59 | 5370351 | 220 Ω 20% 0.1W | R104 | 5100203 | 0.47 Ω 10% 2W |
| R73 | 5020127 | 10 kΩ 5% 1W | | | |
| C1 | 4200477 | 4.7 μF 20% 25V | C26 | 4100234 | 220 pF 5% 63V |
| C2 | 4200477 | 4.7 μF 20% 25V | C27 | 4200476 | 0.47 μF 20% 50V |
| C3 | 4100232 | 100 pF 5% 63V | C29 | 4200665 | 470 pF 20% 63V |
| C4 | 4000136 | 22 pF 5% 63V | C30 | 4010027 | 1 nF 10% 63V |
| C5 | 4200423 | 2.2 μF 20% 50V | C31 | 4200652 | 100 pF 20% 100V |
| C6 | 4010064 | 560 pF 10% 63V | C32 | 4010061 | 2.2 nF 10% 63V |
| C7 | 4010064 | 560 pF 10% 63V | C33 | 4010061 | 2.2 nF 10% 63V |
| C10 | 4010041 | 10 nF -20+80% 40V | C34 | 4010061 | 2.2 nF 10% 63V |
| C11 | 4010041 | 10 nF -20+80% 40V | C35 | 4003059 | 22 pF 5% 500V |
| C13 | 4130179 | 100 nF 20% 63V | C36 | 4000020 | 4.7 pF 0.25 pF 63V |
| C14 | 4200431 | 10 pF 20% 16V | C37 | 4010063 | 4.7 nF 10% 63V |
| C15 | 4130179 | 100 nF 20% 63V | C38 | 4010024 | 470 pF 10% 63V |
| C16 | 4130179 | 100 nF 20% 63V | C39 | 4200478 | 100 pF 20% 10V |
| C17 | 4130179 | 100 nF 20% 63V | C40 | 4010063 | 4.7 nF 10% 63V |
| C18 | 4200311 | 220 μF -10+100% 40V | C45 | 4130195 | 22 nF 5% 250V |
| C19 | 4200509 | 33 pF 20% 25V | C46 | 4130155 | 1 μF 10% 100V |
| C20 | 4200311 | 220 μF -20+100% 40V | C47 | 4130308 | 220 nF 10% 63V |
| C21 | 4200509 | 33 pF 20% 25V | C48 | 4012002 | 10 nF -20+50% 400V |
| C22 | 4200704 | 470 μF 20% 25V | C49 | 4130155 | 1 μF 10% 100V |
| C25 | 4200431 | 10 pF 20% 16V | C50 | 4130308 | 220 nF 10% 63V |

| | | | | | |
|----|---------|----------------|----|---------|---------------|
| P1 | 7220143 | Plug 14 pol. | P3 | 7220313 | Plug 3 pol. |
| P2 | 7220203 | Plug 10/9 pol. | P5 | 7220196 | Plug 4/3 pol. |

| | | |
|----|---------|-------------|
| L1 | 6850114 | Coil 0.5 μH |
|----|---------|-------------|

Control, 8002831, PCB 2

| | | | | | |
|----|---------|-----------------------|-----|---------|----------------------|
| C1 | 4200333 | 1 μ F 10+50% 63V | C9 | 4010027 | 1 nF 10% 63V |
| C2 | 4130310 | 1 μ F 10% 50V | C10 | 4200333 | 1 μ F 10+50% 63V |
| C3 | 4010027 | 1 nF 10% 63V | C11 | 4010041 | 10 nF 20+80% 40V |
| C4 | 4200016 | 22 μ F 10+50% 25V | C12 | 4010041 | 10 nF 20+80% 40V |
| C5 | 4000657 | 47 pF 5% 63V | C13 | 4010041 | 10 nF 20+80% 40V |
| C6 | 4000657 | 47 pF 5% 63V | C16 | 4010061 | 2.2 nF 10% 63V |
| C7 | 4130223 | 47 nF 10% 63V | C17 | 4010061 | 2.2 nF 10% 63V |
| C8 | 4130223 | 47 nF 10% 63V | | | |

| | | | | | |
|----|---------|--------|----|---------|--------|
| S1 | 7400350 | Switch | S3 | 7400350 | Switch |
| S2 | 7400350 | Switch | | | |

Fuses, 6271040, PCB 3
type 6601/02

Fuses, 6270343, PCB 3 type 6605

| | | |
|----|---------|----------------|
| F1 | 6600009 | Fuse 2A 250V |
| F2 | 6600070 | Fuse 40MA 250V |
| | 7200052 | Fuse holder |

Fuses, 6270342, PCB 3
type 6603/04

| | | |
|----|---------|-----------------|
| F1 | 6600019 | Fuse 5A 250V |
| F2 | 6600069 | Fuse 150MA 250V |
| | 7200052 | Fuse holder |

Relay, 8002784, PCB 4

| | | |
|-----|---------|------------------|
| RL1 | 7600069 | Relay |
| | 3917109 | Damping material |

Signal level, 8002916, PCB 7

| | | | | | |
|----|---------|----------------|----|---------|-------------------|
| C1 | 4130311 | 680 nF 10% 63V | C3 | 4130310 | 1 μ F 10% 50V |
| C2 | 4130309 | 330 nF 10% 63V | | | |

| | | |
|----|---------|-------------|
| P1 | 7220544 | Plug 5 pol. |
|----|---------|-------------|

Display control, 8006025, PCB 11

| | | | | | |
|-----|---------|----------------|-----|---------|--------------------------|
| C1 | 4010061 | 2.2 nF 10% 63V | C13 | 4010155 | 220 pF 10% 63V |
| C2 | 4010061 | 2.2 nF 10% 63V | C14 | 4010021 | 220 pF 10% 63V |
| C3 | 4010061 | 2.2 nF 10% 63V | C15 | 4010155 | 220 pF 10% 63V |
| C4 | 4010061 | 2.2 nF 10% 63V | C16 | 4130215 | 220 nF 20% 63V |
| C5 | 4010061 | 2.2 nF 10% 63V | C17 | 4130215 | 220 nF 20% 63V |
| C6 | 4010061 | 2.2 nF 10% 63V | C18 | 4200657 | 2200 μ F 20+50% 16V |
| C7 | 4010021 | 220 pF 10% 63V | C19 | 4200617 | 47 μ F 20% 10V |
| C8 | 4010155 | 220 pF 10% 63V | C20 | 4200431 | 10 μ F 20% 16V |
| C9 | 4010155 | 220 pF 10% 63V | C21 | 4000020 | 4.7 pF \pm 0.25 pF 63V |
| C10 | 4010155 | 220 pF 10% 63V | C22 | 4000167 | 18 pF 5% 63V |
| C11 | 4010021 | 220 pF 10% 63V | C23 | 4010027 | 1 nF 10% 63V |
| C12 | 4010155 | 220 pF 10% 63V | | | |

| | | | | | |
|----|---------|--------------|----|---------|-------------|
| P5 | 7220508 | Plug 19 pol. | P6 | 7220167 | Plug 6 pol. |
|----|---------|--------------|----|---------|-------------|

| | | |
|----|---------|-------|
| X1 | 8090036 | 4 MHz |
|----|---------|-------|

Display drive, 8006024, PCB 12

| | | | | | |
|----|---------|---------------|----|---------|----------------|
| P2 | 7210571 | Socket 2 pol. | P4 | 7210284 | Socket 9 pol. |
| P3 | 7210572 | Socket 6 pol. | P5 | 7210573 | Socket 19 pol. |

Display, 8006023, PCB 13

| | | | | | |
|----|---------|-------------|----|---------|-------------|
| P2 | 7220505 | Plug 2 pol. | P4 | 7220507 | Plug 9 pol. |
| P3 | 7220506 | Plug 6 pol. | | | |

Crossover network, 8006026,
PCB 14

| | | | | | |
|----|---------|----------------------|----|---------|---------------------|
| R1 | 5100059 | 10 Ω 10% 9W | R3 | 5100235 | 1.8 Ω 10% 3W |
| R2 | 5100333 | 6.8 Ω 10% 17W | R4 | 5104009 | 10 Ω 10% 3W |

| | | | | | |
|----|---------|---------------------|----|---------|----------------------|
| C1 | 4200692 | 68 μ F 10% 35V | C4 | 4130152 | 2.2 μ F 10% 100V |
| C2 | 4200709 | 220 μ F 20% 35V | C5 | 4130385 | 3.3 μ F 10% 100V |
| C3 | 4200708 | 47 μ F 10% 35V | C6 | 4130312 | 680 nF 10% 63V |

| | | | | | |
|----|---------|-------------|----|---------|-------------|
| L1 | 6850193 | 1.8 mH | L4 | 6850187 | 120 μ H |
| L2 | 6850192 | 470 μ H | L5 | 6850151 | 0.22 mH |
| L3 | 6850194 | 12 mH | | | |

Crossover network, 8006021, PCB 15

| | | | | | |
|----|---------|----------------------|----|---------|--------------------|
| R1 | 5100326 | 22 Ω 10% 9W | R3 | 5100242 | 6.8 Ω 5% 3W |
| R2 | 5100339 | 8.2 Ω 10% 7W | R4 | 5100242 | 6.8 Ω 5% 3W |
| C1 | 4200683 | 22 μ F 10% 35V | C5 | 4200687 | 10 μ F 10% 35V |
| C2 | 4200682 | 8.2 μ F 10% 35V | C6 | 4130312 | 680 nF 10% 63V |
| C3 | 4200691 | 82 μ F 15% 35V | C7 | 4130312 | 680 nF 10% 63V |
| C4 | 4130384 | 3.3 μ F 10% 100V | C8 | 4200683 | 22 μ F 10% 35V |
| L1 | 6850189 | 270 μ H | L4 | 6850191 | 1 mH |
| L2 | 6850190 | 1 mH | L5 | 6850166 | 47 μ H |
| L3 | 6850168 | 150 μ H | | | |

MEKANISK STYKLISTE
LIST OF MECHANICAL PARTS

| | | | |
|------|---------|--------------------------------|------------------------------------|
| 9101 | 2560224 | Pynteliste, lille | Decorative moulding, small |
| 9102 | 3302407 | Kabinetside og -liste, lille | Cabinet side and moulding, small |
| 9103 | 2560219 | Pynteliste, top | Decorative moulding, top |
| 9104 | 3458407 | Kabinettop | Cabinet top |
| 9105 | 3450668 | Stoframme, lille | Front panel, small |
| 9106 | 8480197 | Bashøjttaler | Woofers |
| 9107 | 8480197 | Bashøjttaler | Woofers |
| 9108 | 2560224 | Pynteliste, lille | Decorative moulding, small |
| 9109 | 3452525 | Kabinetside, kort | Cabinet side, short |
| 9110 | 3302407 | Kabinetside og -liste, lille | Cabinet side and moulding, small |
| 9111 | 3452524 | Kabinetside, lang | Cabinet side, long |
| 9112 | 3444181 | Gitter | Grill |
| 9113 | 3440092 | Bælle for mellemtone | Baffle for midrange |
| 9114 | 3947202 | Skumtape i metermål | Foam tape by the meter |
| 9115 | 3320103 | Dækglas for display, type 6611 | Cover glass for display, type 6611 |
| | 3320099 | Dækglas for display, type 660X | Cover glass for display, type 660X |
| 9116 | 3131285 | Hus for LED, type 660X | LED housing, type 660X |
| 9117 | 3320100 | Bånd | Frame |
| 9118 | 2576050 | Holder for PCB, type 660X | Holder for PCB, type 660X |
| 9119 | 3132099 | Skuffe for PCB | Tray for PCB |
| 9120 | 8480196 | Mellemtonehøjttaler | Midrange speaker |
| 9121 | 8480196 | Mellemtonehøjttaler | Midrange speaker |
| 9122 | 2630024 | Beslag for mellemtonehøjttaler | Fitting for midrange speaker |
| 9123 | 8480206 | Diskantøjttaler | Tweeter |
| 9124 | 3031125 | Beslag for diskantøjttaler | Fitting for tweeter |
| 9125 | 8480197 | Bashøjttaler | Woofers |
| 9126 | 8480196 | Mellemtonehøjttaler | Midrange speaker |
| 9127 | 8480196 | Mellemtonehøjttaler | Midrange speaker |
| 9128 | 3450667 | Stoframme, stor | Front panel, big |
| 9129 | 2630024 | Beslag for mellemtonehøjttaler | Fitting for midrange |
| 9130 | 2630024 | Beslag for mellemtonehøjttaler | Fitting for midrange |
| 9131 | 8480197 | Bashøjttaler | Woofers |
| 9132 | 2560225 | Pynteliste højre, stor | Decorative moulding right, big |
| 9133 | 3302406 | Kabinetside og -liste, stor | Cabinet side and moulding, big |
| 9134 | 6275649 | Ledningsbundt med DIN stik | Wire bundle |
| | 7210608 | Stikdåse 7 pol. DIN | Socket 7 pole DIN |
| 9135 | 7500234 | Stikben | Pin |
| 9136 | 3302406 | Kabinetside og -liste, stor | Cabinet side and moulding, big |
| 9137 | 2560226 | Pynteliste venstre, stor | Decorative moulding left, big |
| 9138 | 3454478 | Bund med tryk | Bottom with print |
| 9139 | 3947202 | Skumtape i metermål | Foam tape by the meter |
| 9140 | 7210596 | Bøsning, sort | Bushing, black |
| 9141 | 7210595 | Bøsning, rød | Bushing, red |
| 9142 | 8860250 | Glas sokkel | Glass socket |
| 9143 | 3340064 | Pakning | Gasket |
| 9144 | 3103224 | Fod | Foot |
| 9145 | 3103066 | Gummifod | Rubber foot |
| 9146 | 2732084 | O-ring | O-ring |
| 9147 | 3340070 | Pakning for mellemtone | Gasket for midrange |
| 9148 | 3340070 | Pakning for mellemtone | Gasket for midrange |
| 9149 | 3340070 | Pakning for mellemtone | Gasket for midrange |
| 9150 | 3340070 | Pakning for mellemtone | Gasket for midrange |

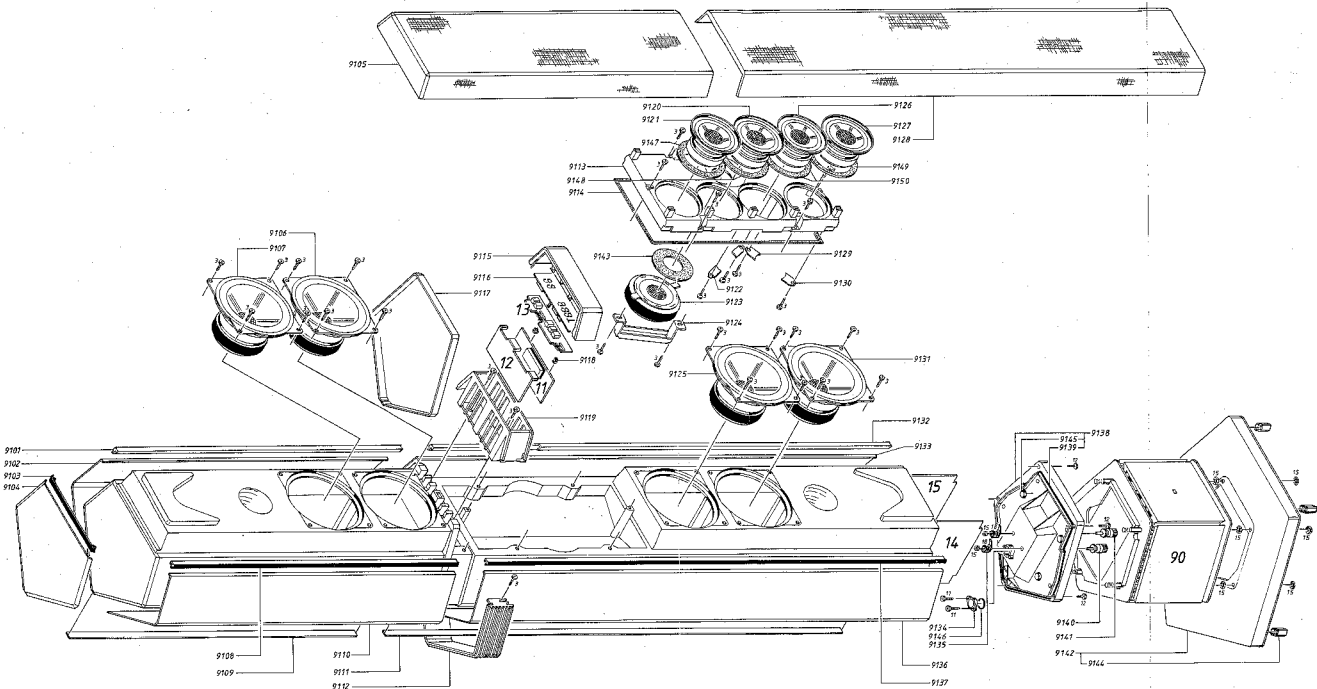
11 Modul 8006025 PCB Display control, type 660X PCB Display control, type 660X

12 Modul 8006024 PCB Display drive, type 660X PCB Display drive, type 660X

13 Modul 8006023 PCB Display, type 660X PCB Display, type 660X

14 Modul 8006026 PCB Delefilter PCB Crossover network

15 Modul 8006021 PCB Delefilter PCB Crossover network



| | | | |
|------|---------|---|---|
| 9001 | 2938154 | Bøsning | Bushing |
| 9002 | 3152455 | Holder f. elektrolytter | Holder for electrolytes |
| 9003 | 3154008 | Låg f. elektrolytter | Cover for electrolytes |
| 9004 | 2938154 | Bøsning | Bushing |
| 9005 | 2819157 | Bejle | Clamp |
| 9006 | 3152063 | Holder f. PCB 1 | Holder for PCB 1 |
| 9007 | 2542969 | Vinkel f. PCB 1 | Bracket for PCB 1 |
| | 3947202 | Skumtape i metermål, til vinkel | Foam tape by the meter, for bracket |
| 9008 | 7210521 | Stikdåse 4 pol. | Socket 4 pole |
| 9009 | 7210567 | Stikdåse phono | Phono socket |
| 9011 | 3164627 | Dækplade f. stikbrønd | Cover for socket |
| 9012 | 2076007 | Gevindestykke | Threaded piece |
| 9013 | 3162266 | Sammenpendingsstykke | Assembling piece |
| 9015 | 2938154 | Bøsning | Bushing |
| 9017 | 3164643 | Dækplade m. tryk, type 6601 | Cover plate with print, type 6601 |
| | 3164643 | Dækplade m. tryk, type 6602 | Cover plate with print, type 6602 |
| | 3164640 | Dækplade m. tryk, type 6603 | Cover plate with print, type 6603 |
| | 3164641 | Dækplade m. tryk, type 6604 | Cover plate with print, type 6604 |
| | 3164639 | Dækplade m. tryk, type 6605 | Cover plate with print, type 6605 |
| 9018 | 3152507 | Ledningsholder | Wire holder |
| 9020 | 3164602 | Dækplade | Cover plate |
| 9022 | 3152063 | Holder f. PCB 1 | Holder for PCB 1 |
| 9023 | 2542669 | Vinkel f. PCB 1 | Bracket for PCB 1 |
| | 3947202 | Skumtape i metermål, til vinkel | Foam tape by the meter, for bracket |
| 9024 | 2542658 | Vinkel f. stik | Bracket for socket |
| 9025 | 7210509 | Dobbelt stikterminal | Double socket terminal |
| 9028 | 2076007 | Gevindestykke | Threaded piece |
| 9029 | 3164603 | Dækplade | Cover plate |
| 9030 | 3164602 | Dækplade | Cover plate |
| 9031 | 2568847 | Kølesproil | Heat sink |
| 9032 | 3452527 | Bagestykke, betjening | Rear cover, control |
| 9033 | 3034066 | Lås f. låg | Lock for lid |
| 9034 | 2812113 | Trykfjeder | Pressure spring |
| 9037 | 3168687 | Betjeningspanel | Control panel |
| 9038 | 3162268 | Sammenpendingsstykke | Assembling piece |
| 9039 | 2776037 | Knap omskifter | Switch button |
| 9040 | 2776037 | Knap omskifter | Switch button |
| 9046 | 7220591 | Kortslutningsstik | Short-circuit plug |
| 9047 | 3392426 | Isolationsstykke | Insulation piece |
| | 3947202 | Skumtape i metermål, til isolationsstik | Foam tape by the meter for insulation piece |
| 9048 | 5141199 | PCB for stikterminal | PCB for socket terminal |

01 Model 8002915 PCB forsterker PCB amplifier

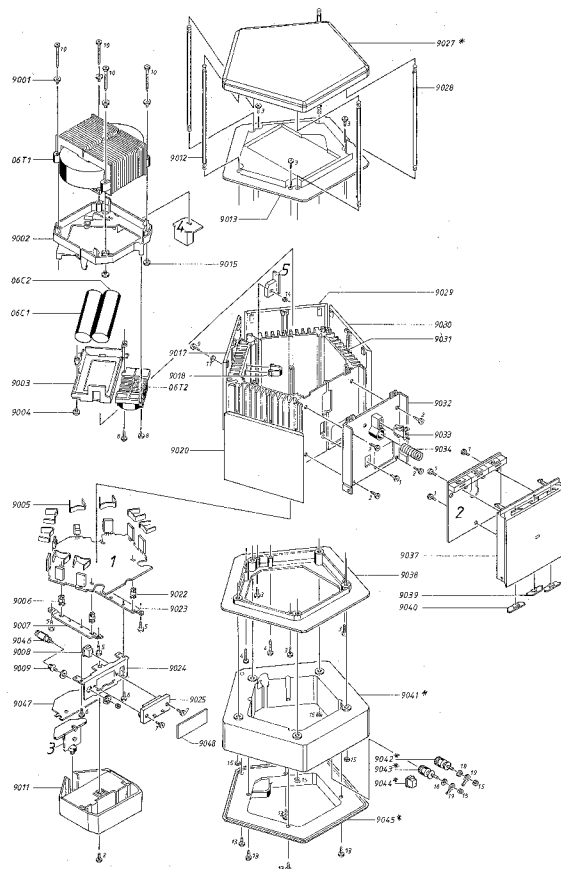
02 Model 8002831 PCB betjening PCB control

03 Model 6271040 PCB sikringer, netledning
type 6601/02 PCB fuses, mains lead
type 6601/02
6270342 PCB sikringer, netledning
type 6603/04 PCB fuses, mains lead
type 6603/04
6270343 PCB sikringer, netledning
type 6605 PCB fuses, mains lead
type 6605
7200052 Sikringsholdere Fuse holders

04 Model 8002784 PCB rebe PCB rebay
3917109 Dæmpmateriale Damping material

05 Model 8002832 PCB netdel PCB power supply unit

06T1 8013369 Transformator, type 6601/02/05 Transformer, type 6601/02/05
8013375 Transformator, type 6603 Transformer, type 6603
8013376 Transformator, type 6604 Transformer, type 6604
06T2 8013370 Transformator, type 6601/02/03/05 Transformer, type 6601/02/03/05
8013377 Transformator, type 6604 Transformer, type 6604
06C1 4200653 10000 µF 20% 80V 10000 µF 20% 80V
06C2 4200653 10000 µF 20% 80V 10000 µF 20% 80V
3917109 Dæmpmateriale Damping material



*Kun i Beolab 150, type 172x

*Only in Beolab 150, type 172x

Ikke viste dele Parts not shown

6270167 Ledning 4 m, type 6611
3341059 Blændrop f. DIN stik, type 6611
6270336 4 m skærmet HT ledning
4 pol stik, 660X
6270352 10 m skærmet HT ledning
4 pol stik, 660X
3040026 Topnagle, type 660X
3922025 Dæmpemateriale, lille klods
3922024 Dæmpemateriale, stor klods
3946038 Folie i meter
3337604 Skumemballage f. glassokkel
3397555 Skumemballage mellemstykker
3397554 Skumemballage endestykker
3391838 Yderæske, type 660X
3397601 Skumemballage 6l bund, type 660X
3391974 Yderæske, type 6611
3391975 Indlæg, type 6611
3170169 Glimmerskive
6275627 Ledningsbunt m. DIN stik

Cable 4 m, type 6611
Sealing plug for DIN socket, type 6611
4 m shielded loudspeaker cable
4 pole pin, type 660X
10 m shielded loudspeaker cable
4 pole pin, type 660X
Socket spanner
Damping material, small block
Damping material, big block
Foil by the meter
Foam packing for glass socket
Foam packing for spacers
Foam packing for end pieces
Outer carton, type 660X
Foam packing for bottom, type 660X
Outer carton, type 6611
Insert, type 6611
Mica washer
Wire bundle with DIN Plug

Oversigt skruer, skiver m.m. Survey of screws, washers etc.

| | | | |
|----|---------|-------------------|-------------------|
| 1 | 2013208 | Skrue M 2,9 x 9,5 | Screw M 2,9 x 9,5 |
| 2 | 2039027 | Skrue AM 3 x 6 | Screw AM 3 x 6 |
| 3 | 2015088 | Skrue M 3,5 x 16 | Screw M 3,5 x 16 |
| 4 | 2015116 | Skrue 3,5 x 25 | Screw 3,5 x 25 |
| 5 | 2015201 | Skrue M 3,5 x 9,5 | Screw M 3,5 x 9,5 |
| 6 | 2039026 | Skrue AM 3 x 4 | Screw AM 3 x 4 |
| 7 | 2039028 | Skrue AM 3 x 8 | Screw AM 3 x 8 |
| 8 | 2015008 | Skrue U 3,5 x 13 | Screw U 3,5 x 13 |
| 9 | 2039014 | Skrue AM 3 x 20 | Screw AM 3 x 20 |
| 10 | 2045115 | Skrue-M 3,5 x 50 | Screw-M 3,5 x 50 |
| 11 | 2013107 | Skrue M 2,9 x 9,5 | Screw M 2,9 x 9,5 |
| 12 | 2043016 | Skrue AM 4 x 10 | Screw AM 4 x 10 |
| 13 | 2013017 | Skrue M 2,9 x 13 | Screw M 2,9 x 13 |
| 14 | 2380011 | Metrik M3 | Nut M3 |
| 15 | 2380016 | Metrik M4 | Nut M4 |
| 17 | 2624013 | Skive | Washer |
| 18 | 2625003 | Sjærmeskive | Tooth lock washer |
| 19 | 7530111 | Loddelfig | Solder tag |

JUSTERINGER

Tomgangsstrøm

Tomgangsstrøm justeres medens forstærkeren er kold og uden signal tilført.

Højtaler må ikke være tilsluttet.

DC millivoltmeter tilsluttes over 1R103/1R104.

1R95 justeres til 30 mV.

Offset

DC voltmeter tilsluttes højtalerudgangen.

1R59 justeres til 0 V.

ADJUSTMENTS

No-load current

Adjust the no-load current while the amplifier is cold and without any supply of signal.

The loudspeakers must not be connected to the amplifier.

Connect the DC millivoltmeter over 1R103/1R104.

Adjust 1R95 to 30 mV.

Offset

Connect the DC voltmeter to the loudspeaker output.

Adjust 1R59 to 0 V.

TECHNICAL SPECIFICATIONS

Loudspeaker

| Type no. | 6601/6602/6604/6605 |
|-------------------------------|--------------------------|
| RMS power handling capacity | 150 watts |
| Music power handling capacity | 200 watts |
| Frequency range +4 -8 dB | 40-20,000 Hz |
| Power at 96 dB SPL | 2.5 watts |
| Sensitivity 1 W | 92 dB |
| Distortion 250-1000 Hz | <0.5% |
| Distortion >1000 Hz | <0.5% |
| Cabinet principle | Bass reflex |
| Woofer | 4 units 13 cm (5") |
| Midrange | 4 units 8 cm (3") |
| Tweeter | 2.5 cm (1") |
| Crossover frequency | 700/5000 Hz 18 dB/octave |
| Net volume | 32 litres |

Power amplifier

| | |
|-------------------------------|---|
| Power output 20-20,000 Hz IHF | 1 x 150 watts/8 ohms |
| LINE input | 80 mV/1 W, 1 V/150 W, 22 kohms, phono plugs |
| Power input | 800 mV/1 W, 10 V/150 W, 15 kohms |
| | 4-pin DIN or spring loaded contacts |
| Bass level switch | Linear, +3 dB/40 Hz, +6 dB/40 Hz |
| Sensitivity switch | 0 dB, -3 dB, -6 dB |
| Power supply | 6601: 220 V |
| | 6602/6605: 240 V |
| | 6603: 120 V |
| | 6604: 100 V |
| Power frequency | 50-60 Hz |
| Power consumption | Max. 300 watts |
| Stand-by | 2 watts |
| Dimensions WxHxD | 5-13.5 x 165 cm incl. stand |
| Weight | 24 kg |

Subject to change without notice

| | |
|-------------------------------|--------------------------------|
| Type no. | 6611 |
| RMS power handling capacity | 150 watts |
| Music power handling capacity | 200 watts |
| Impedance | 8 ohms |
| Frequency range +4 -8 dB | 40-20,000 Hz |
| Power at 96 dB SPL | 2.5 watts |
| Sensitivity 1 W | 92 dB |
| Distortion 250-1000 Hz | <0.5% |
| Distortion >1000 Hz | <0.5% |
| Cabinet principle | Bass reflex |
| Woofers | 4 units 13 cm (5") |
| Midrange | 4 units 8 cm (3") |
| Tweeter | 2.5 cm (1") |
| Crossover frequency | 700/5000 Hz 18 dB/octave |
| Net volume | 32 litres |
| Dimensions WxHxD | 5-13.5 cm x 150 cm incl. stand |
| Weight | 17 kg |

Subject to change without notice

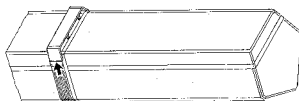
| Sensitivity switch | Input for 150 W output | Amplifier for 4 ohms output | Amplifier for 8 ohms output |
|--------------------|------------------------|-----------------------------|-----------------------------|
| MAX. | 10 V | - 25 W | - 12 W |
| MED. | 14.1 V | 25 W - 50 W | 12 W - 25 W |
| MIN. | 20 V | 50 W - 100 W | 25 W - 50 W |

ADSKILLELSE

Display

DISMANTLING

Display



Dækslet afmonteres ved at rykke i pilens retning.

Dismantle the cover by pulling it in the direction indicated by the arrow.



Displayenheden er nu tilgængelig, og kan løftes ud i serviceposition.

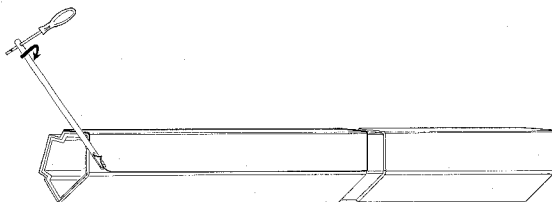
The display unit is now accessible and free to be lifted up in service position.

SERVICETIPS

Udskiftning af aluminiumsfolie

SERVICE TIPS

Replacement of aluminium foil



Aluminiumsfolien løsnes forsigtig i et hjørne.

Loosen the aluminium foil carefully in one corner.

Hjælpeværktøj bestillingsnr. 3629116 benyttes som vist på tegningen.

Use the auxiliary tool, part no 3629116 as shown on the drawing.

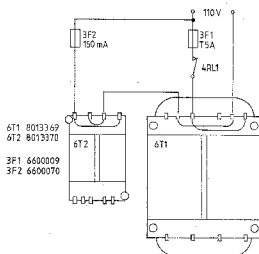
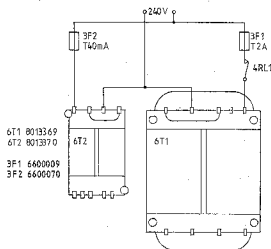
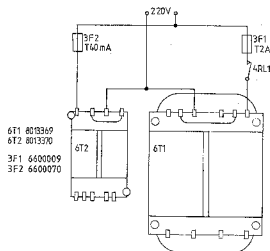
Ledningsmontering på nettransformatorer

Wiring of Mains Transformers

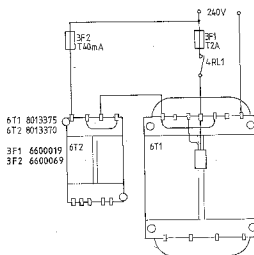
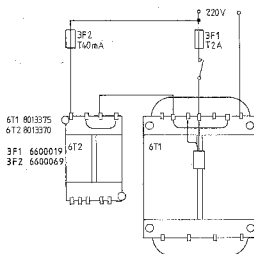
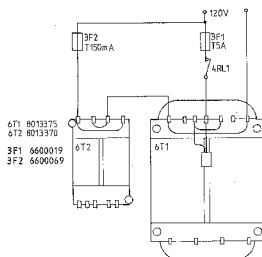
Type 6601

Type 6602

Type 6605



Type 6603



ISOLATIONSTEST

Enhvert apparat skal isolationstestes efter at det har været adskilt. Testen udføres når apparatet igen er helt samlet og klar til udlevering til kunden.

Isolationstesten udføres på følgende måde:

De to stikben på netstikket kortsluttes og tilsluttes en af terminalerne på isolationstesteren. Den anden terminal fra isolationstesteren tilsluttes den sorte klembøsning i AMP LEVEL INPUT.

OBS!

For at undgå beskadigelser på apparatet er det vigtigt, at begge terminaler fra isolationstesteren har virkelig god mekanisk kontakt.

Der drejes nu langsomt med spændingsreguleringen på isolationstesteren indtil en spænding på 1,5 - 2 kV er opnået. Her skal den holdes i 1 sekund, derefter drejes der langsomt ned for spændingen igen.

Der må ikke på noget tidspunkt under testen forekomme overslag.

INSULATION TEST

Each set must be insulation tested after dismantling. The test is to be performed when the set has been reassembled and is ready for delivery to the customer.

Make the insulation test as follows:

Short-circuit the two plug pins of the mains plug and connect one of the terminals of the insulation tester. Connect the other terminal of the insulation tester to the black spring loaded contact marked AMP LEVEL INPUT.

N.B.!

To avoid ruining the set, it is essential that both insulator test terminals are in really good mechanical contact.

Now turn slowly the voltage control of the insulation tester until a voltage of 1.5 - 2 kV is obtained. Hold it there for 1 second, then turn slowly the voltage down again.

At no point during the testing procedure any flash-overs are permissible.

Samleinstruktion for Beovox Penta type 6611 med Beolab 150 type 172x

Instructions for assembly of Beovox Penta type 6611 and Beolab 150 type 172x

På Beovox Penta afmonteres glasfoden pos. nr. 9142, ved at skruer de 5 skruer A ud, iflg. fig. 1.

Remove the glass base of the Beovox Penta, pos. no. 9142, by removing the 5 screws A, according to Fig. 1.

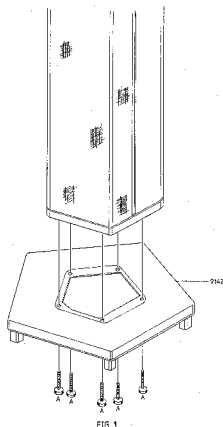


FIG. 1

På Beolab 150 skrues bunden pos. nr. 9045 af, ved at fjerne de 5 skruer B, iflg. fig. 2.

Mellemstykket pos. nr. 9041 frigøres, ved at afmontere de 5 møtrikker C, hvorefter ledningen der forbinder mellemstykket med forstærkerenheden, klippes af 2 cm over forstærkerenheden, iflg. fig. 2. Den afklippede ledning isoleres og placeres ved siden af stikbrønden på forstærkerenheden.

Remove the base of the Beolab 150, pos. no. 9045, by removing the 5 screws B, according to Fig. 2.

Lift off the intermediate piece, pos. no. 9041, by removing the 5 nuts C, and then cut off the wire connecting the intermediate piece to the amplifier unit 2 cm above the amplifier unit, according to Fig. 2. Insulate the cut wire, and position it next to the recess with the sockets on the amplifier unit.

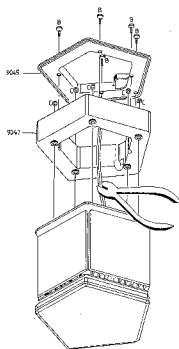


FIG. 2

3-2

Forstærkerenheden vendes og låget pos. nr. 9027 løftes af iflg. fig. 3.

Turn the amplifier unit, and lift off the lid, pos. no. 9027, according to Fig. 3.

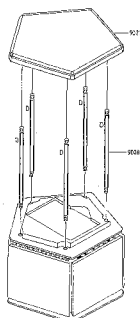


FIG. 3

De 5 stavbolte D afmonteres låget og monteres i bunden op Beovox Penta istedet, iflg. fig. 4.

Remove the 5 bolts D from the lid and mount them in the base of the Beovox Penta instead, according to Fig. 4.

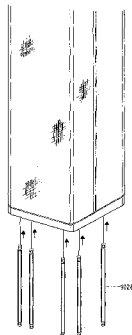


FIG. 4

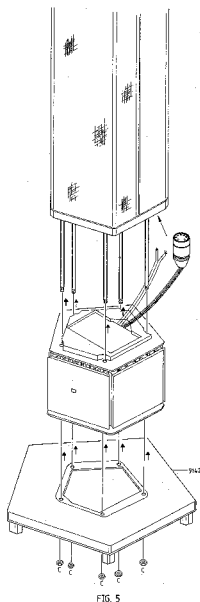


FIG. 5

På disse stavbolte placeres den ændrede Beolab 150 således, at forsiden af Beolab 150 og Beovox Penta vender samme vej, iflg. fig. 5.

Isoleringen på HT-ledningen fra Beolab 150 fjernes, og ledningerne monteres på Beovox Penta med den mærkede ledning til -, iflg. fig. 6.

Proppen over DIN-bøsningen i Beovox Penta fjernes, og DIN-stikket fra Beolab 150 monteres. De 2 enheder kan nu skrues sammen, ved at montere glasfoden nedenunder den ændrede Beolab 150, og derefter montere de 5 møtrikker C, iflg. fig. 5.

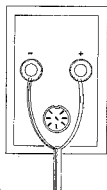


FIG. 6

Position the modified Beolab 150 on these rod bolts so that the front of the Beolab 150 and of the Beovox Penta face the same way, according to Fig. 5.

Remove the insulation on the speaker wire from the Beolab 150, and connect the wires to the Beovox Penta. Connect the marked wire to -, according to Fig. 6.

Remove the cap on the DIN socket in the Beovox Penta and mount the DIN plug from the Beolab 150 in that socket.

The two units by placing the glass base underneath the modified Beolab 150 and then screwing on the 5 nuts C, according to Fig. 5.

ISOLATIONSTEST

Enhvert apparat skal isolationstestes efter at det har været adskilt. Testen udføres når apparatet igen er helt samlet og klar til udlevering til kunden.

Isolationstesten udføres på følgende måde:

De to stikben på netstikket kortsluttes og tilsluttes en af terminalerne på isolationstesteren. Den anden terminal fra isolationstesteren tilsluttes den sorte klembøsning i AMP LEVEL INPUT.

OBS!

For at undgå beskadigelser på apparatet er det vigtigt, at begge terminaler fra isolationstesteren har virkelig god mekanisk kontakt.

Der drejes nu langsomt med spændingsreguleringen på isolationstesteren indtil en spænding på 1,5 - 2 kV er opnået. Her skal den holdes i 1 sekund, derefter drejes der langsomt ned for spændingen igen.

Der må ikke på noget tidspunkt under testen forekomme overslag.

INSULATION TEST

Each set must be insulation tested after dismantling. The test is to be performed when the set has been reassembled and is ready for delivery to the customer.

Make the insulation test as follows:

Short-circuit the two plug pins of the mains plug and connect one of the terminals of the insulation tester. Connect the other terminal of the insulation tester to the black spring loaded contact marked AMP LEVEL INPUT.

N.B.!

To avoid ruining the set, it is essential that both insulator test terminals are in really good mechanical contact.

Now turn slowly the voltage control of the insulation tester until a voltage of 1.5 - 2 kV is obtained. Hold it there for 1 second, then turn slowly the voltage down again.

At no point during the testing procedure any flash-overs are permissible.

Bang & Olufsen

To paste on page 40
in supplement Beolab Penta
type 662X (3538730) for Beolab 200

| | | |
|------|---------|-----------------------|
| 9017 | 3164745 | Cover plate w/print |
| 9027 | 3458492 | Lid |
| 9041 | 3454443 | Intermediate piece |
| 9042 | 7210595 | Terminal Screw, red |
| | 7210596 | Terminal Screw, black |
| 9043 | 7210595 | Terminal Screw, red |
| | 7210596 | Terminal Screw, black |
| 9044 | 7211047 | Socket |
| 9045 | 3454444 | Base |

Survey of screws

| | | |
|----|---------|---------------|
| 15 | 2380016 | Nut M4 |
| 18 | 2625003 | Washer |
| 19 | 7530091 | Soldering lug |

Beolab Penta

Type 6631, 6632, 6633, 6634, 6635

INDKLÆBES I SERVICEANVISNING BEOVOX 4
TO PASTE INTO SERVICE MANUAL BEOVOX 4

3538792

09-91



SERVICEANVISNING
SERVICE MANUAL

8-1

Bang & Olufsen

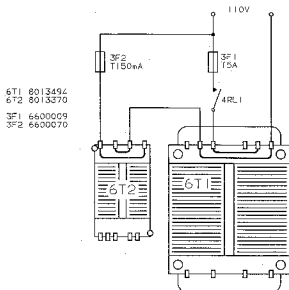
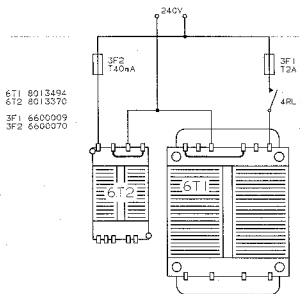
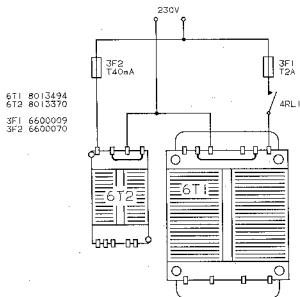
Ledningsmontering på
nettransformatorer

Wiring of Mains Transformers

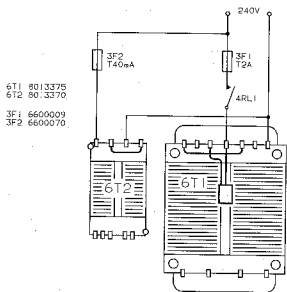
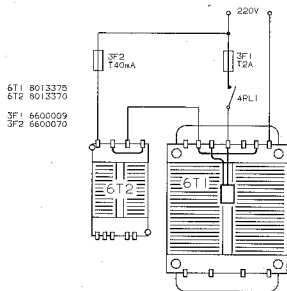
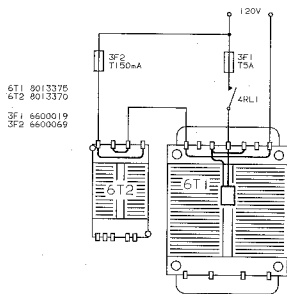
Type 6631

Type 6632

Type 6635



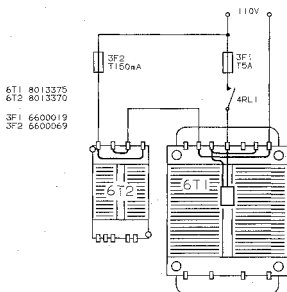
Type 6633



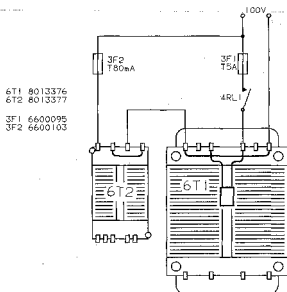
8-3

Bang & Olufsen

Type 6633



Type 6634



PCB 23, Microcomputer

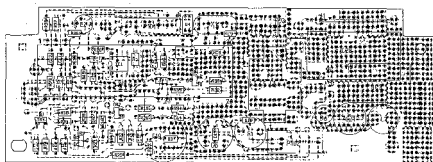
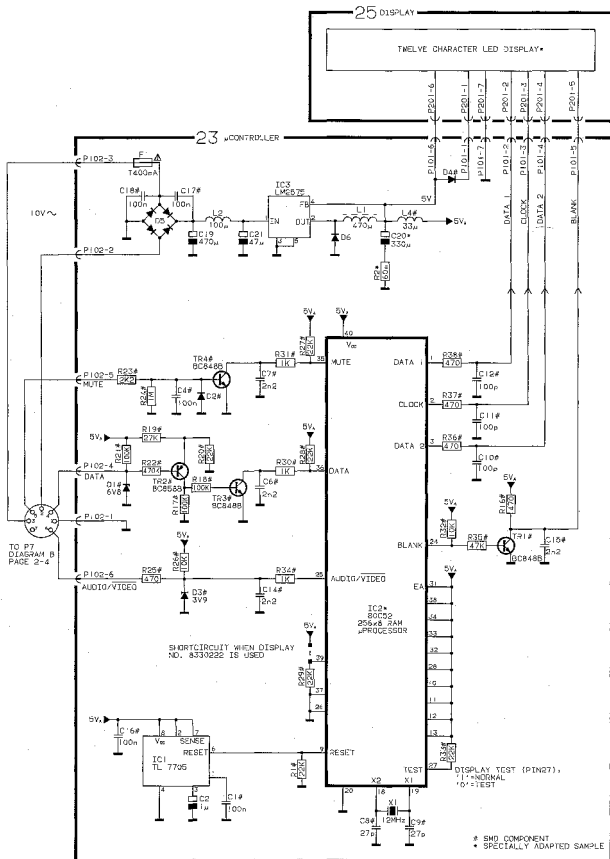


DIAGRAM A, Display 663X



LIST OF ELECTRICAL PARTS

| 51 | 124 | 143 | 156 | 209 | 250 | | |
|----|-----|-----|-----|-----|-----|--|--|
| | | | | | | | |

Resistors not referred to are standard, see page 3-4

Δ Indicates that static electricity may destroy the component

* Specially selected or adapted sample

PCB23, 8001443
Microprocessor

| | | | | | | | |
|-------|---------|-------------------|-----------|------|---------|-------------------|-----------|
| IC1 | 8341612 | 156 | TL 7705 | IC3 | 8341770 | 143 | LM 2575 |
| IC2Δ* | 8341771 | 124 | μP 80C52 | | | | |
| TR1 | 8320615 | 051 | BC 848B | TR3- | 8320615 | 051 | BC 848B |
| TR2 | 8320616 | 051 | BC 858B | TR4 | | | |
| D1 | 8300520 | 250 | Z 6.8V 5% | D4 | 8300557 | 250 | BYM10 |
| D2 | 8300482 | 250 | LL 4148 | D5 | 8300466 | | 125V 1.5A |
| D3 | 8300577 | 250 | Z 3.9V 2% | D6 | 8300795 | 209 | 1N 5822 |
| R2* | 5012142 | | 60 mΩ | | | | |
| C1 | 4010166 | 100nF -20+80% 50V | | C14- | 4010170 | 2.2nF 10% 50V | |
| C2 | 4200512 | 1μF 20% 50V | | C15 | | | |
| C4 | 4010166 | 100nF -20+80% 50V | | C16- | 4010166 | 100nF -20+80% 50V | |
| C6- | 4010170 | 2.2nF 10% 50V | | C18 | | | |
| C7 | | | | C19 | 4200993 | 470pF 20% 50V | |
| C8- | 4000278 | 27pF 5% 50V | | C20* | 4201116 | 330pF 20% 25V | |
| C9 | | | | C21 | 4200952 | 47pF -20+50% 25V | |
| C10- | 4000241 | 100pF 5% 50V | | | | | |
| C12 | | | | | | | |
| L1 | 8020914 | Coil 470μH | | L4 | 8020817 | Coil 33μH | |
| L2 | 8020912 | Coil 100μH | | | | | |
| X1 | 8090075 | Crystal 12MHz | | | | | |
| F1 | 6600080 | Fuse 400mA | | | | | |
| P101 | 7220714 | Plug 7 pole | | P102 | 7220318 | Plug 6 pole | |

All other electrical parts are identical with chapter 3 for 662x (3538730)

LIST OF MECHANICAL PARTS

Ex. view, see page 4-2

| | | |
|---------|---------|--------------------------------|
| 9115 | 3320103 | Cover glass f. display |
| 9151 | 3183673 | Masking f. display |
| 23Modul | 8001443 | PCB23, Microcomputer |
| 25Modul | 8001485 | PCB25, Display (3x4 character) |
| | 2576275 | Holder |
| | 8330222 | PCB25, Display (2x6 character) |

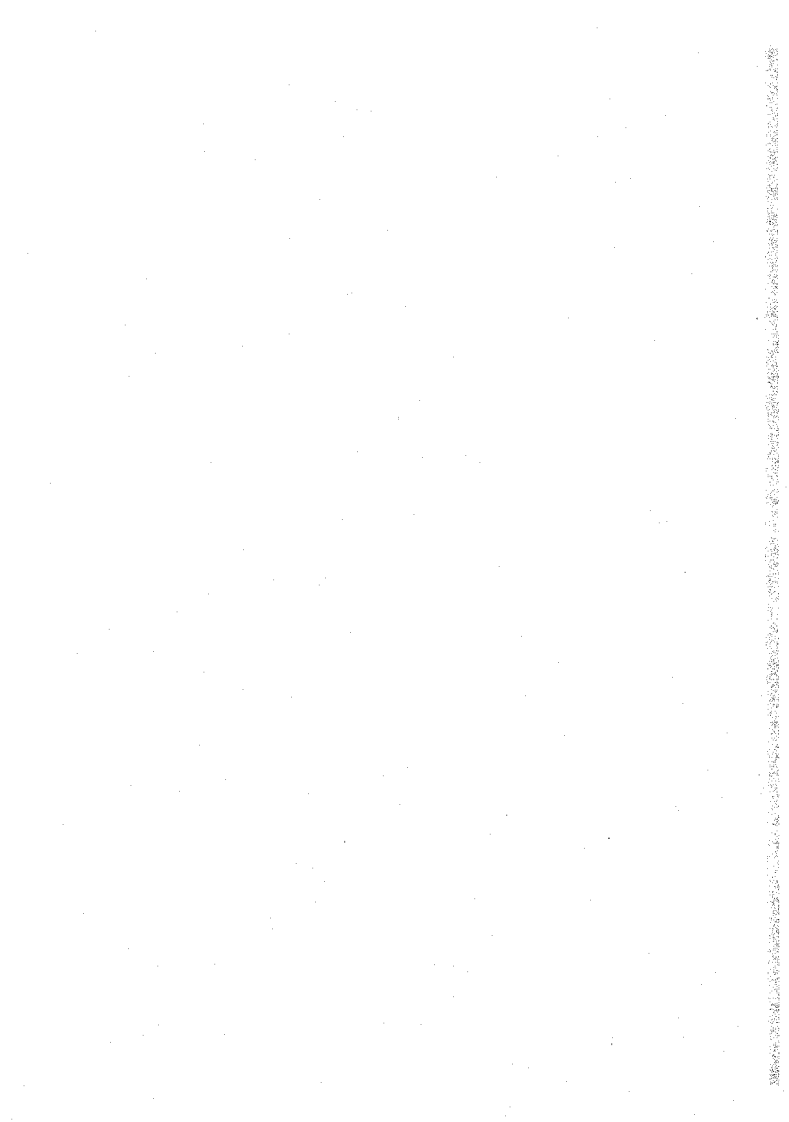
Ex. view, see page 4-3

| | | |
|------|---------|---|
| 9017 | 3164800 | Coverplate w. print, type 6631 |
| | 3164865 | Coverplate w. print, type 6632 |
| | 3164890 | Coverplate w. print, type 6633 |
| | 3164891 | Coverplate w. print, type 6634 |
| | 3164892 | Coverplate w. print, type 6635 |
| 06T1 | 8013494 | Transformer, type 6631 (230 EU) |
| | 8013494 | Transformer, type 6632, 6635 (240 GB/AUS) |
| | 8013375 | Transformer, type 6633 (120 USA) |
| | 8013376 | Transformer, type 6634 (110 JAP) |

Owners Manuals

| | |
|---------|---------|
| 3506179 | Danish |
| 3506180 | Swedish |
| 3506181 | Finnish |
| 3506182 | English |
| 3506183 | German |
| 3506184 | Dutch |
| 3506185 | French |
| 3506186 | Italian |
| 3506187 | Spanish |

All other mechanical parts are identical with chapter 4 for 662x (3538730)



Bang & Olufsen

Beolab Penta

Type 6621, 6622, 6623, 6624, 6625

3538730 12-88 INDKLÆBES I SERVICEANVISNINGEN BEOVOX 4
TO PASTE INTO SERVICE MANUAL BEOVOX 4

SERVICEANVISNING
SERVICE MANUAL



TECHNICAL SPECIFICATIONS

BEOLAB PENTA

| | |
|------|------------------------------|
| Type | 6621, 6622, 6623, 6624, 6625 |
|------|------------------------------|

Speaker:

| | |
|-----------------------------|--------------------|
| Long-term maximum power IEC | 320 watts |
| Maximum noise power IEC | 150 watts |
| Impedance | 8 ohms |
| Frequency range +4/-8 dB | 40-20,000 Hz |
| Power at 96 dB SPL (1 m) | 2.5 watts |
| Sensitivity 1 W (1 m) | 92 dB |
| Distortion 0.250 - 6 kHz | <0.5 % |
| Cabinet principle | Bass Reflex |
| Woofer | 4 units 13 cm (5") |
| Mid-range | 4 units 8 cm (3") |
| Tweeter | 2.5 cm (1") |
| Crossover frequency | 700/5000 Hz |
| Net cabinet volume | 32 litres |

Power amplifier:

| | |
|-------------------------------|--------------------|
| Long-term maximum power IEC | 300 watts |
| RMS DIN | 175 watts |
| IHF | 150-watts |
| Total harmonic distortion IHF | <0.015 % |
| Intermodulation IHF | <0.02 % |
| Dynamic headroom | >1.5 dB |
| Input sensitivity/impedance: | |
| POWER LINK sockets | 1 V/>25 kohms |
| - channel separation | >70 dB |
| SPEAKER LINK socket | 11 V/>15 kohms |
| LINE IN socket | 1 V/>25 kohms |
| BASS EXTENSION switch | 0 dB, +3 dB, +6 dB |
| INPUT LEVEL switch | 0 dB, -3 dB, -6 dB |
| Dynamic Clipping Attenuator | Automatic |
| Power consumption | Max. 300 watts |
| Stand-by | 2 watts |
| Dimensions W x H x D | 22 x 165 x 20.5 cm |
| Dimensions, Stand | 35.5 x 4 x 34 cm |
| Weight | 24 kg |

Subject to change without notice

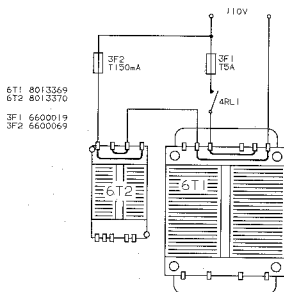
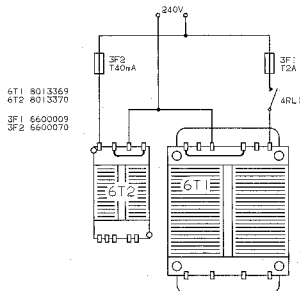
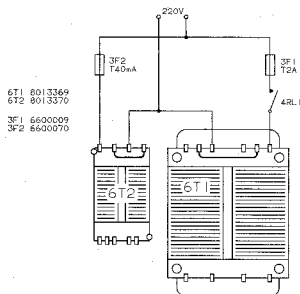
Ledningsmontering på nettransformatorer

Wiring of Mains Transformers

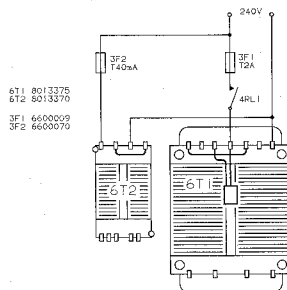
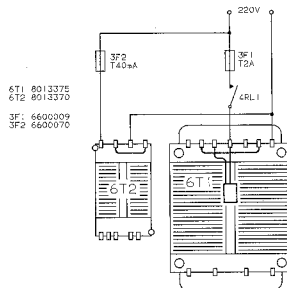
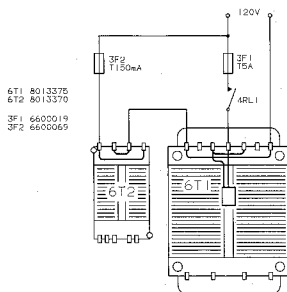
Type 6621

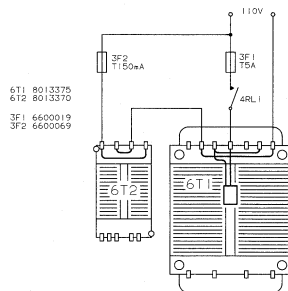
Type 6622

Type 6625

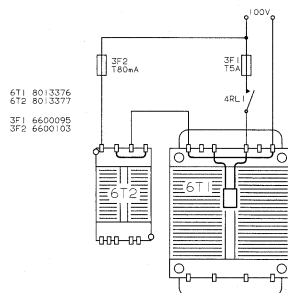


Type 6623





Type 6624



DIAGRAMFORKLARING

På diagrammerne er der angivet typenumre på transistorer og IC'er. Hvis positionsnummeret er efterfulgt af en stjerne, skal reservedelsnummeret altid benyttes, da denne komponent er specielt udvalgt, f.eks. TR102*.

Komponenttryk og koordinatsystem

De største printplader er forsynet med komponenttryk og et koordinatsystem på både print- og komponentside.

På diagrammerne er enhver komponent forsynet med et koordinatnummer. Dette fortæller i hvilket koordinat på printpladen, komponenten er placeret. Koordinatnumrene er angivet med mindre skrifttype end positionsnumrene.

Styrekredslob

I visse styrekredslob er den aktive tilstand angivet med en funktions- eller bogstavsangivelse. Denne kan eksempelvis være STBY = »low« i stand-by-stilling eller STBY = »high« i stand-by-stilling.

Ledningsforbindelser

Ledningsforbindelserne på diagrammerne er samlet i »bunder«. De enkelte ledninger er forsynet med en af følgende koder:

INTERN FORBINDELSE PÅ EN DIAGRAMSIDE

Interne forbindelser på en diagramside angives med et tal. Knækket på ledningen viser, i hvilken retning, den anden ende af ledningen findes.

FORBINDELSE TIL EN ANDEN DIAGRAMSIDE



Forbindelsen til en anden diagramside angives med et tal samt et bogstav for det diagram, forbindelsen går til.

Forsyningsspændinger

Alle forsyningsspændinger i diagrammerne er angivet med en pil og en spændingsangivelse.

Eksempel:

Ved siden af spændingsangivelsen står der f.eks. 7 CON. Dette betyder, at den pågældende forsyningsspænding går til 7 steder på den pågældende diagramside (7 CON = 7 connections).

EXPLANATION OF DIAGRAM

Type numbers of transistors and ICs are indicated on the diagrams.

If the position number is followed by an asterisk the spare part number must always be used because the component in question has been specially selected, e.g. TR102*.

Component print and coordinate system

The largest PCBs have component prints and a coordinate system on both the print and the component side.

On the diagrams every component has a coordinate number. This indicates in which coordinate on the PCB the component is situated. The coordinate numbers are written in smaller print types than the position numbers.

Control Circuit

In certain control circuits the active mode is indicated by a function term or by an abbreviation. This may be e.g. STBY = low in the stand-by mode or STBY = high in the stand-by mode.

Wiring Connections

The wiring connections on the diagrams are assembled in 'bundles'. The individual wires are provided with one of the following codes:

INTERNAL CONNECTION ON ONE DIAGRAM PAGE

Internal connections on a diagram page are indicated by a number. The bend of the wire indicates in which direction the other end of the wire is found.

CONNECTION TO ANOTHER DIAGRAM PAGE



A connection to another diagram page is indicated by a number as well as by a letter of the diagram to which the connection leads.

Supply Voltages

All supply voltages in the diagrams are indicated by an arrow and a voltage indication.

Example:

7 CON.: This means that the supply voltage in question goes to 7 different places on the diagram page in question (7 CON = 7 connections).

SYMBOL FOR SIKKERHEDSKOMPONENTER



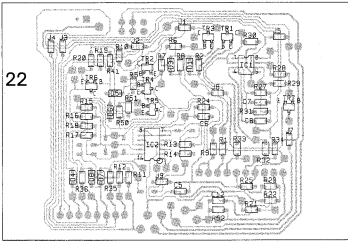
Ved udskiftning af komponenter med dette symbol skal der anvendes komponenter med samme referensnummer. Den nye komponent skal monteres på samme måde som den udskiftede.

MÅLEBETINGELSER

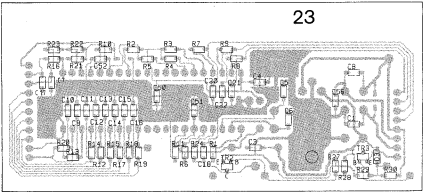
Alle DC-spændinger er målt i forhold til stel med et voltmeter med en indgangsmodstand på 10 Mohm.

DC-spændingerne er opgivet i volt (V), f.eks. 0,7 V.

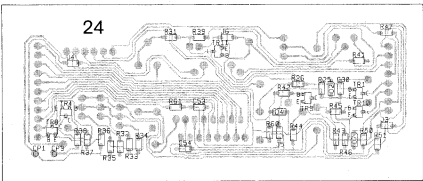
PCB 22, Input Control



PCB 23, Microcomputer



PCB 24, Display Drive



SYMBOL OF SAFETY COMPONENTS



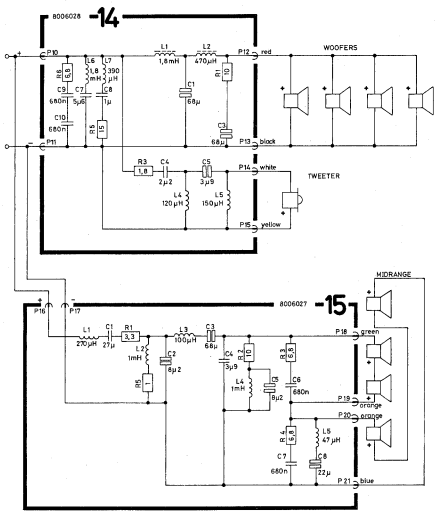
When replacing components with this symbol, components with identical part numbers must be used. The new component must be mounted in the same way as the one replaced.

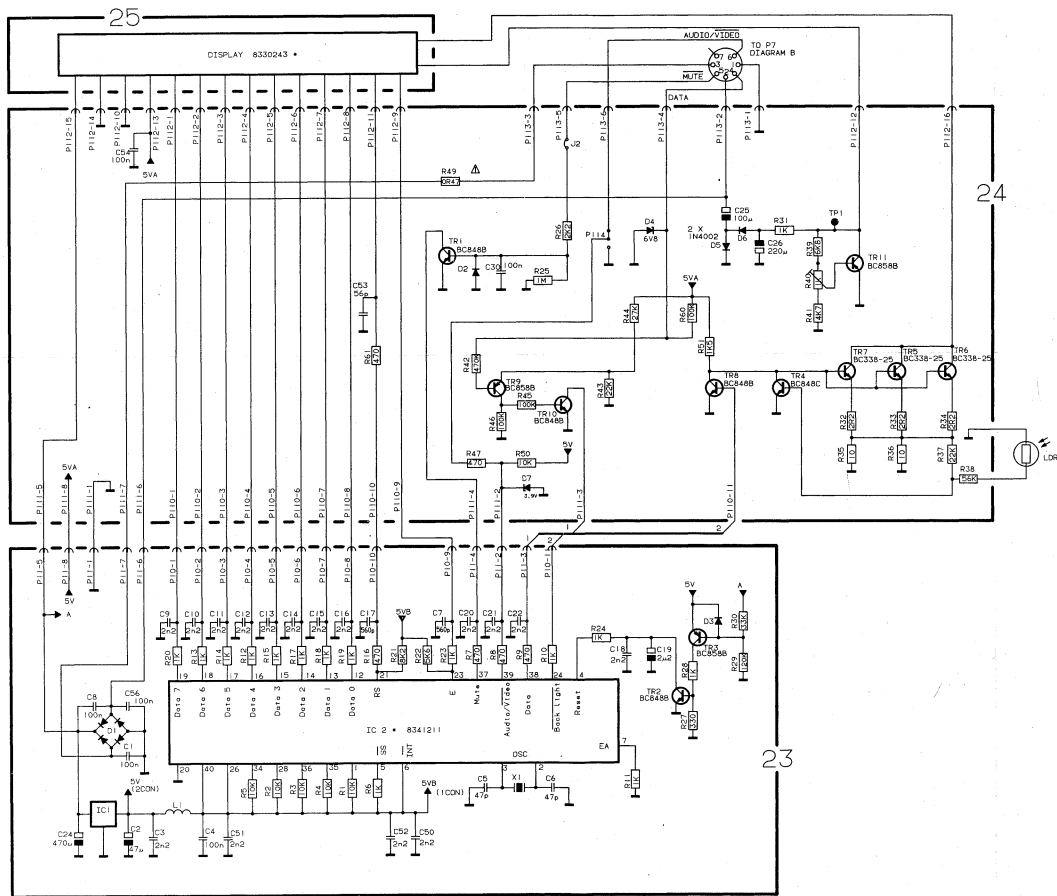
MEASURING CONDITIONS

All DC voltages have been measured in relation to ground with a voltmeter with an input resistance of 10 Mohms.

The DC voltages are stated in volts (V), e.g. 0.7 V.

Crossover Network





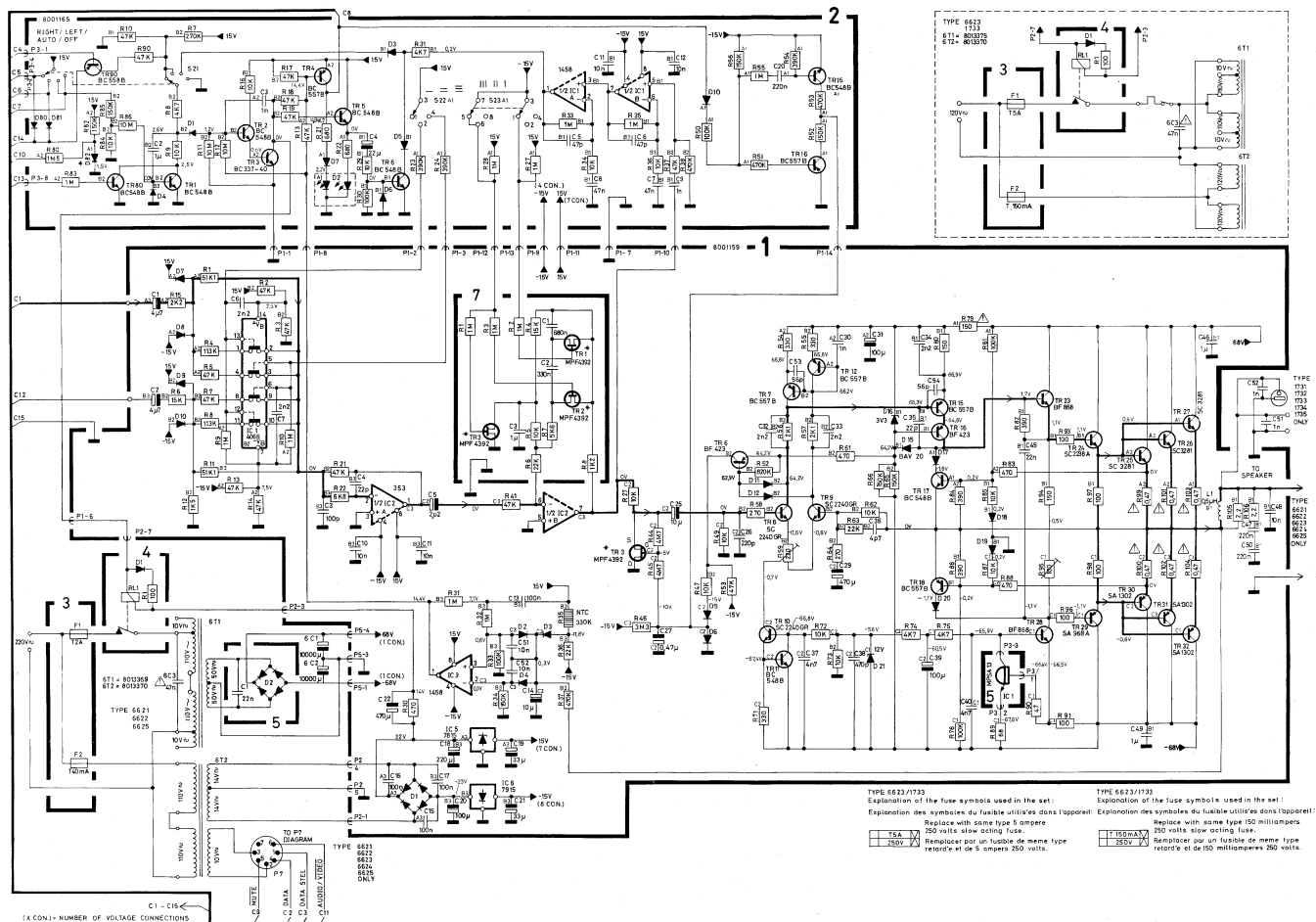
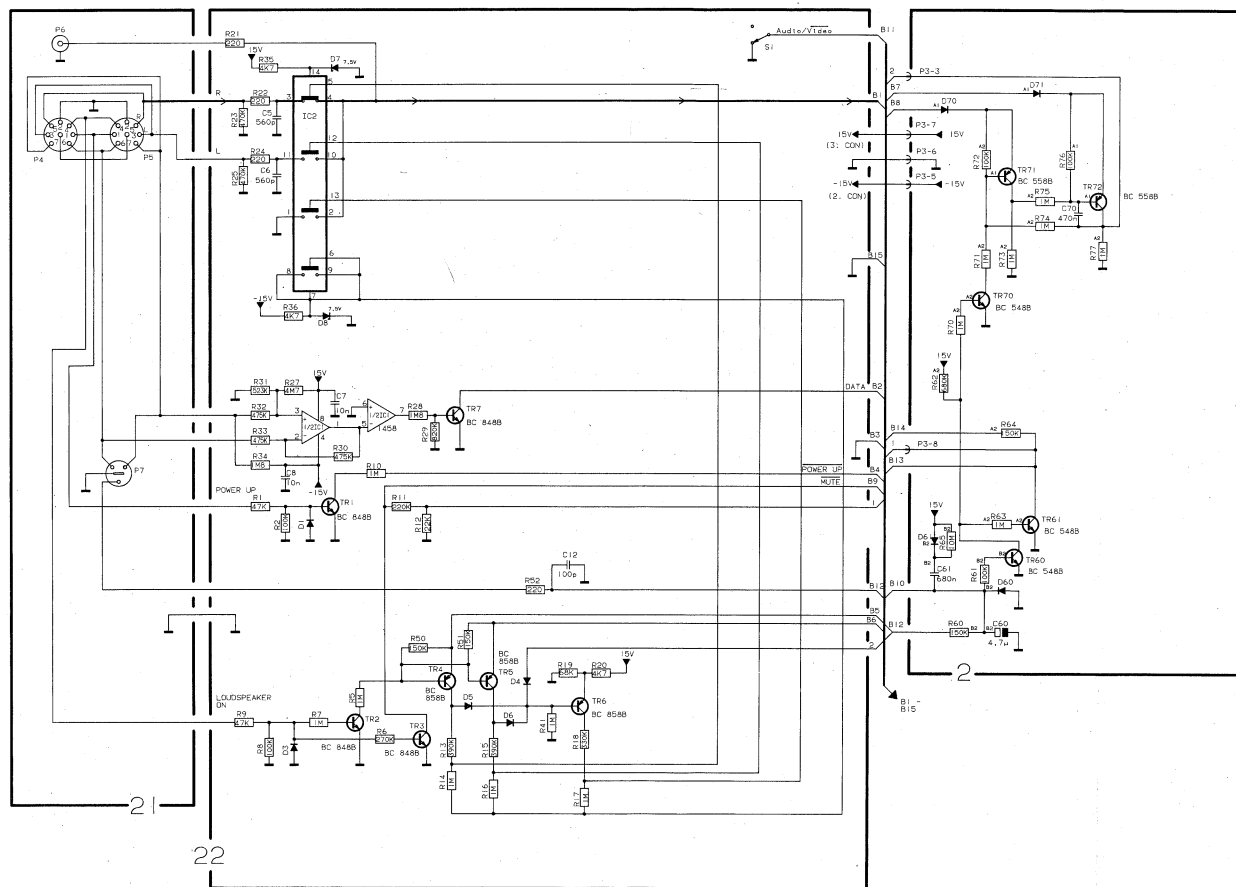
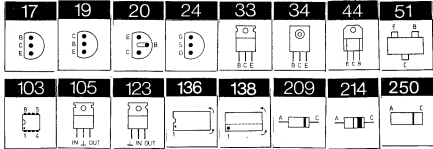


DIAGRAM C, Input



LIST OF ELECTRICAL PARTS

PCB 1, 8001159 Amplifier



Resistors not referred to are standard, see page 3-4

| | | | | | | | |
|--------------|---------|-------------------------|-------------|---------|---------|-----------------------|------------|
| IC1A | 8340202 | 136 | MC 4066 BCP | IC5 | 8340064 | 105 | MC 7815 |
| IC2 | 8340763 | 136 | LF353-TL072 | IC6 | 8340240 | 123 | MC 7915 CT |
| IC3 | 8340048 | 103 | MC 1458 N | | | | |
| TR3 Δ | 8320396 | 24 | MPF 4392 | TR17 | 8320509 | 20 | BC 548B |
| TR6 | 8320623 | 17 | BF 423 | TR18 | 8320503 | 20 | BC 557B |
| TR7 | 8320503 | 20 | BC 557B | TR23 | 8320646 | 44 | BF 858 |
| TR8-10 | 8320641 | 17 | SC 2240 GR | TR24 | 8320643 | 33 | SC 2238A |
| TR11 | 8320509 | 20 | BC 548B | TR25-27 | 8320645 | 34 | SC 3281 |
| TR12 | 8320503 | 20 | BC 557B | TR28 | 8320646 | 44 | BF 858 |
| TR15 | 8320503 | 20 | BC 557B | TR29 | 8320642 | 33 | SA 968A |
| TR16 | 8320623 | 17 | BF 423 | TR30-32 | 8320644 | 34 | SA 1302 |
| D1 | 8300466 | | B125 C1500 | D16 | 8300541 | 209 | ZPD 3.3V |
| D2-12 | 8300058 | 209 | IN 4148 | D17-20 | 8300058 | 209 | IN 4148 |
| D15 | 8300409 | 214 | BAV 20-25 | D21 | 8300407 | 209 | ZPD 12V |
| R1 | 5020363 | 511 k Ω 1% 1/4W | | R62 | 5020110 | 10 k Ω 1% 1/4W | |
| R4 | 5020126 | 113 k Ω 1% 1/4W | | R64 | 5020954 | 270 Ω 1% 1/4W | |
| R8 | 5020126 | 113 k Ω 1% 1/4W | | R73 | 5020127 | 10 k Ω 5% 1W | |
| R11 | 5020363 | 511 k Ω 1% 1/4W | | R79 | 5020633 | 150 Ω 5% 0.35W | |
| R35 | 5220036 | 330 k Ω 10% 1/2W | | R95 | 5370341 | 100 Ω 20% 0.1W | |
| R58-57 | 5020200 | 2.1 k Ω 1% 1/4W | | R99 | 5100203 | 0.47 Ω 10% 2W | |
| R59 | 5370351 | 220 Ω 20% 0.1W | | R104 | | | |
| C1-2 | 4200515 | 4.7 μ F 20% 25V | | C30 | 4010105 | 1 nF 10% 63V | |
| C3 | 4100232 | 100 pF 5% 63V | | C31 | 4200652 | 100 pF 20% 100V | |
| C4 | 4000136 | 22 pF 5% 63V | | C32-34 | 4010103 | 2.2 nF 10% 63V | |
| C5 | 4200517 | 2.2 μ F 20% 50V | | C35 | 4003059 | 22 pF 5% 500V | |
| C6-7 | 4010103 | 2.2 nF 10% 63V | | C36 | 4000145 | 4.7 pF 0.25 pF 63V | |
| C10-11 | 4010106 | 10 nF 20-80% 40V | | C37 | 4010101 | 4.7 nF 10% 63V | |
| C13 | 4130230 | 100 nF 20% 63V | | C38 | 4010128 | 470 pF 10% 63V | |
| C14 | 4200510 | 10 μ F 20% 16V | | C39 | 4200511 | 100 pF 20% 10V | |
| C15-17 | 4130230 | 100 nF 20% 63V | | C40 | 4010101 | 4.7 nF 10% 63V | |
| C18 | 4200311 | 220 pF -10-100% 40V | | C45 | 4130195 | 22 nF 5% 250V | |
| C19 | 4200509 | 33 pF 20% 25V | | C46 | 4130155 | 1 pF 10% 100V | |
| C20 | 4200368 | 100 pF -10-100% 63V | | C47 | 4130308 | 220 nF 10% 63V | |
| C21 | 4200509 | 33 pF 20% 25V | | C48 | 4012002 | 10 nF -20-50% 400V | |
| C22 | 4200704 | 470 pF 20% 25V | | C49 | 4130155 | 1 pF 10% 100V | |
| C25 | 4200510 | 10 pF 20% 16V | | C50 | 4130308 | 220 nF 10% 63V | |
| C26 | 4100234 | 220 pF 5% 63V | | C51-52 | 4130265 | 10 nF 10% 63V | |
| C27 | 4200523 | 0.47 μ F 20% 50V | | C53-54 | 4000362 | 56 pF 5% 63V | |
| C29 | 4200665 | 470 pF 20% 6.3V | | | | | |
| L1 | 6850114 | Coil 0.5 μ H | | | | | |
| P1 | 7220143 | Plug 14/14 pole | | | | | |
| P2 | 7220203 | Plug 10/9 pole | | | | | |
| P3 | 7220313 | Plug 3 pole | | | | | |
| P5 | 7220634 | Plug 4/3 pole | | | | | |

Δ Indicates that static electricity may destroy the component.

* Specially selected or adapted sample.

PCB 2, 8001165 Control

IC1 8340048 103 MC 1458 CP1

| | | | | | | | |
|--------|---------|-----------------------|-----------|---------|---------|-------------------|----------|
| TR1-2 | 8320509 | 20 | BC 548B | TR60-61 | 8320509 | 20 | BC 548B |
| TR3 | 8320595 | 20 | BC 337-40 | TR70 | 8320509 | 20 | BC 548B |
| TR4 | 8320503 | 20 | BC 557B | TR71-72 | 8320510 | 20 | BC 558B |
| TR5-6 | 8320509 | 20 | BC 548B | TR80 | 8320509 | 20 | BC 548B |
| TR15 | 8320509 | 20 | BC 548B | TR90 | 8320510 | 20 | BC 558B |
| TR16 | 8320503 | 20 | BC 557B | | | | |
| D1 | 8300058 | 209 | IN 4148 | D60-61 | 8300058 | 209 | IN 4148 |
| D2 | 8330153 | | TL5V 5100 | D70-71 | 8300058 | 209 | IN 4148 |
| D3-7 | 8300058 | 209 | IN 4148 | D80-81 | 8300058 | 209 | IN 4148 |
| D10 | 8300058 | 209 | IN 4148 | D82* | 8300056 | 209 | ZTE 1.5V |
| R65 | 5020875 | 10 M Ω 5% 1/8W | | | | | |
| C2 | 4130399 | 1 pF 10% 63V | | C11-12 | 4010106 | 10 nF -20-80% 40V | |
| C3 | 4010105 | 1 nF 10% 63V | | C20 | 4130308 | 220 nF 10% 63V | |
| C4 | 4200016 | 22 pF -10+50% 25V | | C60 | 4200842 | 4.7 pF 20% 16V | |
| C5-6 | 4000137 | 47 pF 5% 63V | | C61 | 4130311 | 680 nF 10% 63V | |
| C7-8 | 4130240 | 47 nF 10% 63V | | C70 | 4130313 | 470 nF 20% 63V | |
| C9 | 4010105 | 1 nF 10% 63V | | | | | |
| S21 | 7400378 | Switch | | | | | |
| S22-23 | 7400379 | Switch | | | | | |
| P3 | 7220221 | Plug 8/8 pole | | | | | |
| F1 | 6600009 | Fuse 2 AT | | | | | |
| F2 | 6600070 | Fuse 40 mA T | | | | | |
| | 6271102 | Mains lead (EU-GB) | | | | | |
| | 6270297 | Mains lead (AUS) | | | | | |
| F1 | 6600019 | Fuse 5 AT | | | | | |
| F2 | 6600069 | Fuse 150 mA T | | | | | |
| | 6270251 | Mains lead | | | | | |
| F1 | 6600095 | Fuse 5 AT | | | | | |
| F2 | 6600103 | Fuse 80 mA T | | | | | |
| | 6271016 | Mains lead | | | | | |
| D1 | 8300058 | 209 | IN 4148 | | | | |
| RL1 | 7600069 | Relay | | | | | |
| | 3917109 | Damping material | | | | | |
| IC1 | 8340505 | 19 | MPS A13 | | | | |
| D2 | 8300497 | KBU 6D | | | | | |
| C1 | 4130079 | 22 nF 20% 250V | | | | | |

* Specially selected or adapted sample.

PCB 6, Power Supply Type 6621-6622-6625

Type 6623

Type 6624

PCB 7, 8001168 Signal Level

PCB 14, 8006028 Crossover Network/ Woofers-Tweeter

PCB 15, 8006027 Crossover Network/Midrange

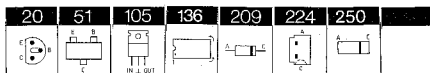
PCB 21, 8001169 Input Socket

PCB 22, 8001172 Input Control

| | | | | | |
|--------|---------|------------------------|--------|---------|------------------------|
| C1-2 | 4200653 | 10000 μ F 20% 80V | C3 | 4130394 | 47 nF 20% 250V |
| T1 | 8013369 | Transformer | T2 | 8013370 | Transformer |
| C1-2 | 4200653 | 10000 μ F 20% 80V | C3 | 4130397 | 47 nF 20% 125V |
| T1 | 8013375 | Transformer | T2 | 8013370 | Transformer |
| C1-2 | 4200653 | 10000 μ F 20% 80V | | | |
| T1 | 8013376 | Transformer | T2 | 8013377 | Transformer |
| TR1-3* | 8320396 | 24 MPF 4392 | | | |
| C1 | 4130311 | 680 nF 10% 63V | C3 | 4130070 | 1 μ F 10% 50V |
| C2 | 4130309 | 330 nF 10% 63V | | | |
| P1 | 7220544 | Plug 5 pole | | | |
| R1 | 5100659 | 10 Ω 10% 9W | R5 | 5100200 | 15 Ω 10% 3W |
| R3 | 5100235 | 1.8 Ω 10% 3W | R6 | 5100242 | 6.8 Ω 5% 3W |
| C1 | 4200692 | 68 μ F 10% 35V | C7 | 4200732 | 5.6 μ F 10% 35V |
| C3 | 4200692 | 68 μ F 10% 35V | C8 | 4130155 | 1 μ F 10% 100V |
| C4 | 4130152 | 2.2 μ F 10% 100V | C9-10 | 4130312 | 680 nF 10% 63V |
| C5 | 4130385 | 3.9 μ F 10% 100V | | | |
| L1 | 6850193 | Coil 1.8 mH | L5 | 6850142 | Coil 0.15 mH |
| L2 | 6850192 | Coil 470 μ H | L6 | 6850200 | Coil 1.8 mH |
| L4 | 6850196 | Coil 120 μ H | L7 | 6850198 | Coil 390 μ H |
| R1 | 5100340 | 3.3 Ω 10% 9W | R3-4 | 5100242 | 6.8 Ω 5% 3W |
| R2 | 5104009 | 10 Ω 10% 3W | R5 | 5104020 | 1 Ω 10% 3W |
| C1 | 4200731 | 27 μ F 10% 35V | C5 | 4200682 | 8.2 μ F 10% 35V |
| C2 | 4200682 | 8.2 μ F 10% 35V | C6-7 | 4130312 | 680 nF 10% 63V |
| C3 | 4200692 | 68 μ F 10% 35V | C8 | 4200683 | 22 μ F 10% 35V |
| C4 | 4130385 | 3.9 μ F 10% 100V | | | |
| L1 | 6850197 | Coil 270 μ H | L4 | 6850199 | Coil 1 mH |
| L2 | 6850190 | Coil 1 mH | L5 | 6850166 | Coil 47 μ H |
| L3 | 6850188 | Coil 100 μ H | | | |
| P4-5 | 7210518 | 8 pole DIN socket | P7 | 7210521 | Loudspeaker socket |
| P6 | 7220746 | Phono plug | | | |
| IC1 | 8340996 | 138 1458 | IC2 | 8341024 | 138 4066 |
| TR1-3 | 8320615 | 51 BC 848B | TR7 | 8320615 | 51 BC 848B |
| TR4-6 | 8320616 | 51 BC 858B | | | |
| D1 | 8300482 | 250 LL 4148 | D7-8 | 8300636 | 250 ZPD 75V |
| D3-6 | 8300482 | 250 LL 4148 | | | |
| R30 | 5011732 | 475 k Ω 1% 1/8W | R32-33 | 5011732 | 475 k Ω 1% 1/8W |
| R31 | 5011733 | 523 k Ω 1% 1/8W | | | |
| C5-6 | 4000325 | 560 pF 5% 50V | C12 | 4000292 | 100 pF 5% 50V |
| C7-8 | 4010176 | 10 nF -20+80% 50V | | | |
| S1 | 7409380 | Switch | | | |

Δ indicates that static electricity may destroy the component.

* Specially selected or adapted sample.



Resistors not referred to are standard, see page 3-4.

PCB 23, 8001173 Microcomputer

| | | | |
|-------|---------|-----|-------|
| IC1 | 8341163 | 105 | 78M05 |
| IC2*Δ | 8341211 | 136 | 80C50 |

| | | | |
|-----|---------|----|---------|
| TR2 | 8320615 | 51 | BC 848B |
| TR3 | 8320616 | 51 | BC 858B |

| | | | |
|----|---------|------|---------|
| D1 | 8300466 | B125 | C1500 |
| D3 | 8300482 | 250 | LL 4148 |

| | | | | | |
|-------|---------|--------------------|--------|---------|--------------------|
| C1 | 4010166 | 100 nF -20+80% 50V | C17 | 4000325 | 560 pF 5% 50V |
| C2 | 4201087 | 47 μF -10+100% 40V | C18 | 4010170 | 2.2 nF 10% 50V |
| C3 | 4010170 | 2.2 nF 10% 50V | C19 | 4200517 | 2.2 μF 20% 50V |
| C4 | 4010166 | 100 nF -20+80% 50V | C20-22 | 4010170 | 2.2 nF 10% 50V |
| C5-6 | 4000234 | 47 pF 5% 50V | C24 | 4200834 | 470 μF -10+50% 25V |
| C7 | 4000325 | 560 pF 5% 50V | C50-52 | 4010170 | 2.2 nF 10% 50V |
| C8 | 4010166 | 100 nF -20+80% 50V | C56 | 4010166 | 100 nF -20-80% 50V |
| C9-16 | 4010170 | 2.2 nF 10% 50V | | | |

| | | |
|----|---------|------------|
| L1 | 8020552 | Coil 10 μH |
|----|---------|------------|

| | | |
|----|---------|-------------------|
| X1 | 8090009 | Crystal 6.000 MHz |
|----|---------|-------------------|

| | | |
|-----|---------|-----------------|
| P10 | 7220862 | Plug 11/11 pole |
| P11 | 7220600 | Plug 8/8 pole |

PCB 24, 8001174 Display Drive

| | | | | | | | |
|-------|---------|----|-----------|------|---------|----|---------|
| TR1 | 8320615 | 51 | BC 848B | TR9 | 8320616 | 51 | BC 858B |
| TR4 | 8320747 | 51 | BC 848C | TR10 | 8320615 | 51 | BC 848B |
| TR5-7 | 8320848 | 20 | BC 338-25 | TR11 | 8320616 | 51 | BC 858B |
| TR8 | 8320615 | 51 | BC 848B | | | | |

| | | | | | | | |
|----|---------|-----|----------|------|---------|-----|----------|
| D2 | 8300482 | 250 | LL 4148 | D5-6 | 8300023 | 209 | 1N 4002 |
| D4 | 8300520 | 224 | ZPD 6.8V | D7 | 8300577 | 250 | ZPD 3.9V |

| | | |
|-----|---------|-----------------|
| R40 | 5370141 | 1 kΩ 20% 0.1W |
| R49 | 5020684 | 0.47 Ω 10% 0.4W |

| | | |
|-----|---------|---------------------|
| LDR | 5210006 | 3.3 kΩ 33% - 21 LUX |
|-----|---------|---------------------|

| | | | | | |
|-----|---------|--------------------|-----|---------|--------------------|
| C25 | 4200462 | 100 μF -10+50% 25V | C53 | 4000240 | 56 pF 5% 50V |
| C26 | 4200835 | 220 μF -20+50% 25V | C54 | 4010166 | 100 nF -20+80% 50V |
| C30 | 4010166 | 100 nF -20+80% 50V | | | |

| | | | | | |
|------|---------|-------------------|------|---------|---------------|
| P110 | 7210748 | Socket 11/11 pole | P113 | 7220167 | Plug 6/6 pole |
| P111 | 7210290 | Socket 8/8 pole | P114 | 7220212 | Plug 3/3 pole |
| P112 | 7210723 | Socket 16 pole | | 7210570 | Strap |

PCB 25, 8330243 Display

Δ indicates that static electricity may destroy the component.

* Specially selected or adapted sample.

Standard Resistors:

Resistors 5% 1/2 W

| | x1 | x10 | x100 | x1K | x10K | x100K | x1M | x10M |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.0 | | 5011000 | 5011013 | 5011028 | 5011044 | 5010313 | 5011089 | 5011083 |
| 1.2 | 5011406 | 5011001 | 5011014 | 5011030 | 5011045 | 5011058 | 5010421 | |
| 1.5 | 5010727 | 5011002 | 5011015 | 5011031 | 5011046 | 5011059 | 5011071 | |
| 1.8 | 5010857 | 5010787 | 5011016 | 5011033 | 5011047 | | 5011072 | |
| 2.2 | 5011335 | 5010708 | 5010815 | 5011034 | 5011048 | 5011061 | 5011074 | |
| 2.7 | | 5010803 | 5011018 | 5011055 | 5011049 | 5011062 | 5011075 | |
| 3.3 | 5020803 | 5011007 | 5011019 | 5011037 | | 5011063 | 5010381 | |
| 3.9 | | 5010782 | 5011021 | 5010700 | 5011051 | | 5010392 | |
| 4.7 | 5010765 | 5011009 | 5011022 | 5010635 | 5010036 | 5011065 | 5011078 | |
| 5.6 | | 5011010 | 5011023 | 5011041 | | 5011066 | 5011079 | |
| 6.8 | 5010874 | 5011011 | 5011024 | 5011042 | 5010810 | 5011067 | 5011080 | |
| 8.2 | | 5011012 | 5011026 | 5011043 | 5010638 | 5011068 | 5011081 | |

Resistors 5% 1/4 W

| | x1 | x10 | x100 | x1K | x10K | x100K | x1M | x10M |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.0 | 5010592 | 5010506 | 5010665 | 5010040 | 5010059 | 5010049 | 5010054 | 5010638 |
| 1.2 | | 5010595 | 5010128 | 5010153 | 5010046 | 5010047 | 5010665 | |
| 1.5 | 5011348 | 5010468 | 5010367 | 5010247 | 5010053 | 5010063 | 5010093 | |
| 1.8 | | 5010822 | 5010362 | 5010066 | 5010135 | 5010072 | 5010791 | |
| 2.2 | 5010682 | 5010448 | 5010092 | 5010064 | 5010079 | 5010120 | 5010245 | |
| 2.7 | 5010925 | 5010403 | 5010060 | 5010298 | 5010141 | 5010083 | 5010431 | |
| 3.3 | | 5010253 | 5010044 | 5010076 | 5010075 | 5010117 | 5010848 | |
| 3.9 | 5011377 | 5010622 | 5010070 | 5010069 | 5010060 | 5010073 | 5010714 | |
| 4.7 | 5010888 | 5010411 | 5010058 | 5010048 | 5010045 | 5010077 | 5011513 | |
| 5.6 | 5010706 | 5010151 | 5010067 | 5010041 | 5010061 | 5010071 | 5010658 | |
| 6.8 | 5010904 | 5010039 | 5010144 | 5010052 | 5010062 | 5010074 | | |
| 8.2 | 5010880 | 5010056 | 5010068 | 5010154 | 5010091 | 5010505 | | |

Resistors 5% 1/8 W

| | x1 | x10 | x100 | x1K | x10K | x100K | x1M | x10M |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|
| 1.0 | | 5011464 | 5011357 | 5010816 | 5010935 | 5011440 | 5011459 | 5020875 |
| 1.2 | | 5011351 | 5011084 | 5011442 | 5011338 | 5011341 | 5011175 | |
| 1.5 | | 5011463 | 5011443 | 5011178 | 5011364 | 5011398 | 5011460 | |
| 1.8 | | | 5011350 | 5011361 | 5011344 | 5011468 | | |
| 2.2 | 5011032 | 5011376 | 5010886 | 5011353 | 5010833 | 5011369 | 5011342 | |
| 2.7 | | 5011471 | 5011355 | 5011362 | 5011366 | 5011370 | 5011478 | |
| 3.3 | | | 5011337 | 5010827 | 5011346 | 5011371 | 5011462 | |
| 3.9 | | 5011438 | 5011817 | 5011157 | 5011457 | 5011372 | 5020876 | |
| 4.7 | 5011363 | 5011038 | 5011441 | 5011363 | 5010937 | 5011343 | 5011611 | |
| 5.6 | | 5011412 | 5011358 | 5010885 | 5011166 | 5011340 | | |
| 6.8 | | 5011356 | 5011336 | 5010839 | 5011367 | 5011458 | | |
| 8.2 | | 5011466 | 5011354 | 5011339 | 5011368 | 5011373 | | |

Resistors SMD 2% 1/8 W

SMD 5% 1/8 W

| | 5% | 2% | 2% | 2% | 2% | 2% | 5% | 5% |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|
| | x1 | x10 | x100 | x1K | x10K | x100K | x1M | x10M |
| 1.0 | 5011623 | 5011647 | 5011218 | 5011227 | 5011241 | 5011256 | 5011267 | 5011730 |
| 1.1 | 5011624 | 5011648 | 5011669 | 5011681 | 5011689 | 5011694 | 5011707 | |
| 1.2 | 5011625 | 5011649 | 5011219 | 5011682 | 5011490 | 5011257 | 5011708 | |
| 1.3 | 5011626 | 5011650 | 5011670 | 5011683 | 5011242 | 5011258 | 5011709 | |
| 1.5 | 5011627 | 5011651 | 5011220 | 5011228 | 5011243 | 5011259 | 5011710 | |
| 1.6 | 5011628 | 5011652 | 5011671 | 5011684 | 5011690 | 5011695 | 5011711 | |
| 1.8 | 5011629 | 5011653 | 5011672 | 5011229 | 5011244 | 5011260 | 5011712 | |
| 2.0 | 5011630 | 5011654 | 5011673 | 5011685 | 5011691 | 5011696 | 5011713 | |
| 2.2 | 5011216 | 5011655 | 5011674 | 5011230 | 5011245 | 5011261 | 5011714 | |
| 2.4 | 5011634 | 5011656 | 5011675 | 5011686 | 5011246 | 5011697 | 5011715 | |
| 2.7 | 5011635 | 5011657 | 5011497 | 5011231 | 5011247 | 5011262 | 5011716 | |
| 3.0 | 5011731 | 5011658 | 5011499 | 5011500 | 5011692 | 5011696 | 5011717 | |
| 3.3 | 5011217 | 5011659 | 5011676 | 5011232 | 5011248 | 5011263 | 5011718 | |
| 3.6 | 5011636 | 5011660 | 5011677 | 5011687 | 5011249 | 5011264 | 5011719 | |
| 3.9 | 5011637 | 5011661 | 5011221 | 5011233 | 5011491 | 5011699 | 5011720 | |
| 4.3 | 5011638 | 5011662 | 5011498 | 5011688 | 5011492 | 5011700 | 5011721 | |
| 4.7 | 5011639 | 5011269 | 5011222 | 5011234 | 5011250 | 5011265 | 5011722 | |
| 5.1 | 5011640 | 5011663 | 5011678 | 5011235 | 5011493 | 5011701 | 5011723 | |
| 5.6 | 5011641 | 5011664 | 5011223 | 5011236 | 5011251 | 5011702 | 5011724 | |
| 6.2 | 5011642 | 5011665 | 5011224 | 5011237 | 5011693 | 5011703 | 5011725 | |
| 6.8 | 5011643 | 5011666 | 5011225 | 5011238 | 5011252 | 5011704 | 5011726 | |
| 7.5 | 5011644 | 5011667 | 5011679 | 5011239 | 5011253 | 5011705 | 5011727 | |
| 8.2 | 5011645 | 5011270 | 5011226 | 5011240 | 5011254 | 5011266 | 5011728 | |
| 9.1 | 5011646 | 5011668 | 5011680 | 5011489 | 5011255 | 5011706 | 5011729 | |

(Glue dots, approx. 200, part no. 3181932).

MEKANISK STYKLISTE
LIST OF MECHANICAL PARTS
Beolab Penta

| | | | |
|------|---------|------------------------------|----------------------------------|
| 9101 | 2560224 | Pynteliste, lille | Decorative moulding, small |
| 9102 | 3302407 | Kabinetside og -liste, lille | Cabinet side and moulding, small |
| 9103 | 2560219 | Pynteliste, top | Decorative moulding, top |
| 9104 | 3458407 | Kabinettop | Cabinet top |
| 9105 | 3450668 | Stoframme, lille | Cloth front, small |
| 9106 | 8480197 | Bashøjttaler | Woofers |
| 9107 | 8480197 | Bashøjttaler | Woofers |
| 9108 | 2560224 | Pynteliste, lille | Decorative moulding, small |
| 9109 | 3452525 | Kabinetside, kort | Cabinet side, short |
| 9110 | 3302407 | Kabinetside og -liste, lille | Cabinet side and moulding, small |
| 9111 | 3452524 | Kabinetside, lang | Cabinet moulding, long |
| 9112 | 3444181 | Gitter | Grill |
| 9113 | 3440092 | Baffle f/mellemtonehøjttaler | Baffle f/midrange speaker |
| 9114 | 3947202 | Skumtape i motormål | Foam tape by the meter |
| 9115 | 3320132 | Dækglas f/display | Cover glass f/display |
| 9117 | 3320100 | Bånd | Frame |
| 9119 | 3132125 | Skuffe f/PCB | Tray f/PCB |
| 9120 | 8480196 | Mellemtonehøjttaler | Midrange speaker |
| 9121 | 8480196 | Mellemtonehøjttaler | Midrange speaker |
| 9122 | 2630024 | Beslag f/mellemtonehøjttaler | Fitting f/midrange speaker |
| 9123 | 8480206 | Diskant højttaler | Tweeter |
| 9124 | 3931125 | Beslag f/diskant højttaler | Fitting f/tweeter |
| 9125 | 8480197 | Bashøjttaler | Woofers |
| 9126 | 8480196 | Mellemtonehøjttaler | Midrange speaker |
| 9127 | 8480196 | Mellemtonehøjttaler | Midrange speaker |
| 9128 | 3450667 | Stoframme, stor | Cloth front, big |
| 9129 | 2630024 | Beslag f/mellemtonehøjttaler | Fitting f/midrange speaker |
| 9130 | 2630024 | Beslag f/mellemtonehøjttaler | Fitting f/midrange speaker |
| 9131 | 8480197 | Bashøjttaler | Woofers |
| 9132 | 2560243 | Pynteliste højre, stor | Decorative moulding right, big |
| 9133 | 3302406 | Kabinetside og -liste, stor | Cabinet side and moulding, big |
| 9134 | 6275649 | Ledningsbundt | Wire bundle |
| | | m/7 pol. DIN stik - hun | w/7 pole DIN socket - female |
| | | 7 pol. DIN stik - hun | 7 pole DIN socket - female |
| 9136 | 3302406 | Kabinetside og -liste, stor | Cabinet side and moulding, big |
| 9137 | 2560244 | Pynteliste venstre, stor | Decorative moulding left, big |
| 9138 | 3454478 | Bund m/tryk | Bottom w/print |
| 9139 | 3947202 | Skumtape i metermål | Foam tape by the meter |
| 9140 | 7210596 | Skruterminal, sort | Terminal screw, black |
| 9141 | 7210595 | Skruterminal, rød | Terminal screw, red |
| 9142 | 8860250 | Glassokkel | Glass socket |
| 9143 | 3340072 | Pakning | Gasket |
| 9144 | 3103224 | Fod | Foot |
| 9145 | 3103066 | Gummifod | Rubber foot |
| 9146 | 2732084 | O-ring | O-ring |
| 9147 | 3340070 | Pakning | Gasket |
| 9148 | 3340070 | Pakning | Gasket |
| 9149 | 3340070 | Pakning | Gasket |
| 9150 | 3340070 | Pakning | Gasket |
| 9151 | 3183092 | Afdekning f/display | Masking f/display |

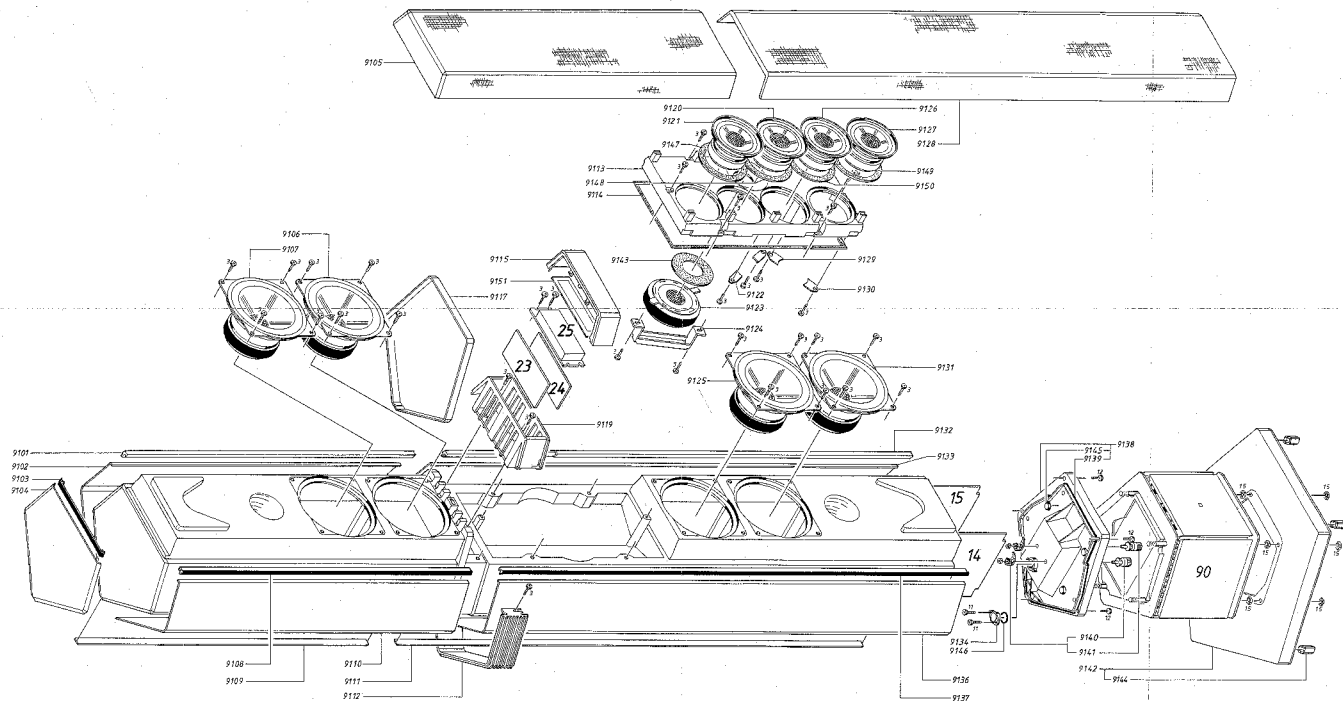
14Modul 8006028 PCB14, Crossover Network/Woofers-Tweeter

15Modul 8006027 PCB15, Crossover Network/Midrange

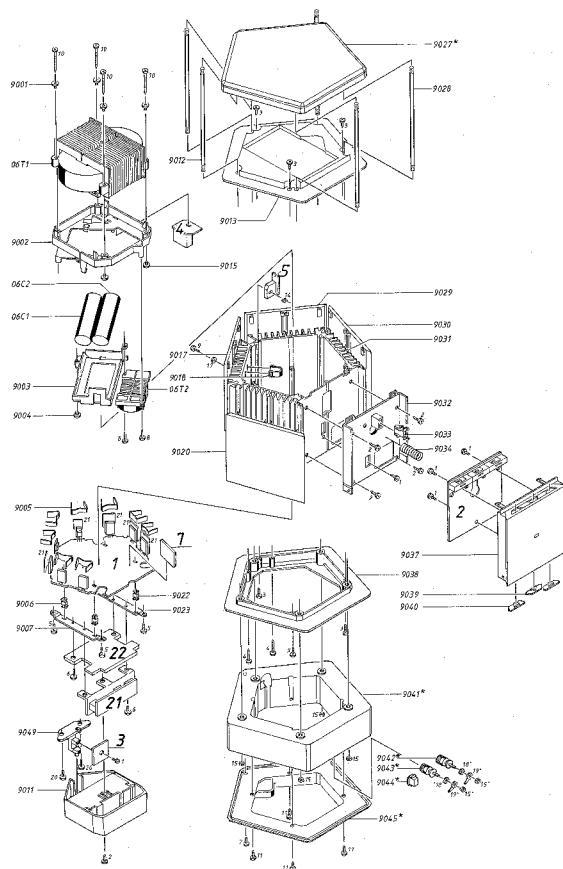
23Modul 8001173 PCB23, Microcomputer

24Modul 8001174 PCB24, Display Drive

25Modul 8330243 PCB25, Display



Power Amplifier



Power Amplifier

| | | | |
|------|---------|-----------------------------|----------------------------------|
| 9001 | 2938154 | Besning | Bushing |
| 9002 | 3152455 | Holder f/elektrolytter | Holder f/elektrolytes |
| 9003 | 3164608 | Lag f/elektrolytter | Cover f/elektrolytes |
| 9004 | 2938154 | Besning | Bushing |
| 9005 | 2818157 | Bejle | Clamp |
| 9006 | 3152063 | Holder f/PCB1 | Holder f/PCB1 |
| 9007 | 2542669 | Vinkel f/PCB1 | Bracket f/PCB1 |
| | 3947202 | Skumtape i meteral f/vinkel | Foam tape by the meter f/bracket |
| 9011 | 3164749 | Dæklase f/alkitrænd | Cover f/sockets |
| 9012 | 2076007 | Gewindestykke | Threaded piece |
| 9013 | 3162266 | Sammenspændingsstykke | Assembling piece |
| 9015 | 2938154 | Besning | Bushing |
| 9016 | 3164748 | Dæklase m/tryk, type 6621 | Cover plate w/print, type 6621 |
| 9017 | 3164749 | Dæklase m/tryk, type 6622 | Cover plate w/print, type 6622 |
| | 3164751 | Dæklase m/tryk, type 6623 | Cover plate w/print, type 6623 |
| | 3164753 | Dæklase m/tryk, type 6624 | Cover plate w/print, type 6624 |
| | 3164750 | Dæklase m/tryk, type 6625 | Cover plate w/print, type 6625 |
| 9018 | 3152507 | Ledningsholder | Wire holder |
| 9020 | 3164602 | Dæklase | Cover plate |
| 9022 | 3152063 | Holder f/PCB1 | Holder f/PCB1 |
| 9023 | 2542669 | Vinkel f/PCB1 | Bracket f/PCB1 |
| | 3947202 | Skumtape i meteral f/vinkel | Foam tape by the meter f/bracket |
| 9028 | 2076007 | Gewindestykke | Threaded piece |
| 9029 | 3164603 | Dæklase | Cover plate |
| 9030 | 3164602 | Dæklase | Cover plate |
| 9031 | 2568847 | Køleprofil | Heat sink |
| 9032 | 3455227 | Bagestykke, betjening | Rear cover, control |
| 9033 | 3034066 | Lås f/låg | Lock f/lid |
| 9034 | 2812113 | Trykfjeder | Pressure spring |
| 9037 | 3168769 | Betjeningspanel | Control panel |
| 9038 | 3162266 | Sammenspændingsstykke | Assembling piece |
| 9039 | 2776037 | Knap omskifter | Switch button |
| 9040 | 2776037 | Knap omskifter | Switch button |
| 9049 | 3152657 | Holder f/netledning | Holder f/mains lead |

01Modul 8001159 PCB1, Amplifier

02Modul 8001165 PCB2, Control

03Modul 8002905 PCB3, PCB without fuses and mains lead

| | |
|---------|----------------------------|
| 6271102 | Mains lead, type 6621-6622 |
| 6270251 | Mains lead, type 6625 |
| 6271016 | Mains lead, type 6624 |
| 6270297 | Mains lead, type 6625 |

04Modul 8001166 PCB4, Relay
3917109 Damping material

05Modul 8001167 PCB5, Bridge

| | | |
|------|---------|---------------------------------------|
| 08T1 | 8013369 | Transformer, type 6621-6622-6625 |
| | 8013375 | Transformer, type 6623 |
| | 8013376 | Transformer, type 6624 |
| 08T2 | 8013370 | Transformer, type 6621-6622-6623-6625 |
| | 8013377 | Transformer, type 6624 |
| 06C1 | 4200653 | 10000 uF 20% 80V |
| 06C2 | 4200653 | 10000 uF 20% 80V |
| | 3917109 | Damping material |

07Modul 8001168 PCB7, Signal Level

21Modul 8001169 PCB21, Input Socket

| | | | | | |
|------|---------|-------------------|------|---------|--------------------|
| 21P4 | 7210318 | 8 pole DIN socket | 21P6 | 7220746 | Phono plug |
| 21P5 | 7210318 | 8 pole DIN socket | 21P7 | 7210521 | Loudspeaker socket |

22Modul 8001172 PCB22, Input Control

* Kun i Beolab 200, type 173x

* Only in Beolab 200, type 173x

Ikke viste dele Parts not shown

| | | |
|---------|------------------------------------|------------------------------------|
| 6275627 | Ledningsbundt m/7 pol. | Wire bundle w/7 pole |
| | DIN stik - han | DIN plug - male |
| 7220205 | 7 pol. DIN stik - han | 7 pole DIN plug - male |
| 3040028 | Topnøgle | Socket spanner |
| 3922023 | Dæmpemateriale | Damping material |
| 3922025 | Dæmpemateriale t/mellemtone, lille | Damping material t/midrange, small |
| 3922024 | Dæmpemateriale t/mellemtone, stor | Damping material t/midrange, big |
| 3946038 | Folie i meter | Foil by the meter |
| 3397604 | Skumemballage t/glassokkel | Foam packing t/glass socket |
| 3397555 | Skumemballage mellemstykker | Foam packing t/spacers |
| 3397554 | Skumemballage endestykker | Foam packing t/end pieces |
| 3391838 | Ydereske | Outer carton |
| 3397601 | Skumemballage t/bund | Foam packing t/bottom |

Oversigt over skruer, skiver m.m. Survey of screws, washers etc.

| | | | |
|----|---------|--------------------|--------------------|
| 1 | 2013208 | Skrue 2,9 x 9,5 mm | Screw 2.9 x 9.5 mm |
| 2 | 2039027 | Skrue 3 x 6 mm | Screw 3 x 6 mm |
| 3 | 2015088 | Skrue 3,5 x 16 mm | Screw 3.5 x 16 mm |
| 4 | 2015116 | Skrue 3,5 x 25 mm | Screw 3.5 x 25 mm |
| 5 | 2015201 | Skrue 3,5 x 9,5 mm | Screw 3.5 x 9.5 mm |
| 6 | 2039026 | Skrue 3 x 4 mm | Screw 3 x 4 mm |
| 7 | 2039028 | Skrue 3 x 8 mm | Screw 3 x 8 mm |
| 8 | 2015008 | Skrue 3,5 x 13 mm | Screw 3.5 x 13 mm |
| 9 | 2039014 | Skrue 3 x 20 mm | Screw 3 x 20 mm |
| 10 | 2015115 | Skrue 3,5 x 50 mm | Screw 3.5 x 50 mm |
| 11 | 2013107 | Skrue 2,9 x 9,5 mm | Screw 2.9 x 9.5 mm |
| 12 | 2043016 | Skrue 4 x 10 mm | Screw 4 x 10 mm |
| 14 | 2380011 | Møtrik M3 | Nut M3 |
| 15 | 2380016 | Møtrik M4 | Nut M4 |
| 17 | 2624013 | Skive | Washer |
| 20 | 2015108 | Skrue 3,5 x 16 mm | Screw 3.5 x 16 mm |
| 21 | 3170169 | Glimmerskive | Mica washer |

TILBEHØR ACCESSORIES

| | | |
|---------|--|--|
| 6270336 | 4 pol DIN skærmet HT ledning - 5 m | 4-pin DIN shielded speaker cable - 5 m |
| 6270352 | 4 pol DIN skærmet HT ledning - 10 m | 4-pin DIN shielded speaker cable - 10 m |
| 6270350 | 2 pol DIN skærmet HT ledning - 5 m | 2-pin DIN shielded speaker cable - 5 m |
| 6270417 | 8 pol DIN Power Link ledning - 2,5 m | 8-pin DIN Power Link cable - 2.5 m |
| 6270418 | 8 pol DIN Power Link ledning - 5 m | 8-pin DIN Power Link cable - 5 m |
| 6270419 | 8 pol DIN Power Link ledning - 10 m | 8-pin DIN Power Link cable - 10 m |
| 7229075 | Adaptor t/Power Link - 8 pol DIN hun/8 pol DIN hun | Adaptor t/Power Link - 8-pin DIN female/8-pin DIN female |

OWNER's MANUALS

| | | |
|---------|-----------|---------|
| 3506145 | Dansk | Danish |
| 3506146 | Svensk | Swedish |
| 3506147 | Finsk | Finnish |
| 3506148 | Engelsk | English |
| 3506149 | Tysk | German |
| 3506150 | Hollandsk | Dutch |
| 3506151 | Fransk | French |
| 3506153 | Italiensk | Italian |
| 3506154 | Spansk | Spanish |

JUSTERINGER**Tomgangsstrøm**

Tomgangsstrøm justeres medens forstærkeren er kold og uden signal tilført.

Højttaler må ikke være tilsluttet.

DC millivoltmeter tilsluttes over modstandene 1R103/1R104, dvs. fra emitteren på 1TR32 til emitteren på 1TR27.

1R95 justeres til 30mV.

Offset

DC voltmeter tilsluttes højttalerudgangen.

1R59 justeres til 0 V.

Display

DC voltmeter tilsluttes stel og 24TP1.

Med potentiometer 24R40 justeres kontrastspændingen til $1,9V \pm 0,05V$.

ADJUSTMENTS**No-load current**

Adjust the no-load current while the amplifier is cold and without any supply of signal.

The loudspeaker must not be connected to the amplifier.

Connect the DC millivoltmeter across the two resistors 1R103/1R104, that is from the emitter of 1TR32 to the emitter of 1TR27.

Adjust 1R95 to 30mV.

Offset

Connect the DC voltmeter to the loudspeaker output.

Adjust 1R59 to 0 V.

Display

Connect DC voltmeter across ground and 24TP1.

Use potentiometer 24R40 to adjust contrast voltage to $1.9V \pm 0.05V$.

ADSKILLELSE

Display

DISMANTLING

Display



Dækslet afmonteres ved at trække i pilens retning.

Dismantle the cover by pulling it in the direction indicated by the arrow.



Ved at løsne de 4 skruer kan display-enheden frigøres, og løftes ud i serviceposition.

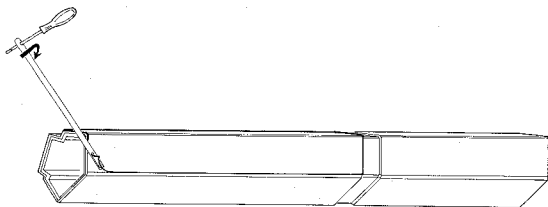
By loosening the 4 screws the display unit become accessible and can be lifted up in service position.

REPARATIONSTIPS

Udskiftning af rustfrit stål

REPAIR HINTS

Replacement of stainless steel



De rustfrie stålpaneler løsnes forsigtigt i et af hjørnerne.

Loosen the stainless steel panels carefully in one corner.

Hjælpeværktøj bestillingsnr. 3629116 benyttes som vist på tegningen.

Use the service tool, part no 3629116 as shown on the drawing.

ISOLATIONSTEST

Enhvert apparat skal isolationstestes, efter at det har været adskilt. Testen udføres, når apparatet er samlet igen og er klar til udlevering til kunden.

Der må ikke forekomme overslag under testen!

Isolationstesten udføres på følgende måde:

De to stikben på netstikket kortsluttes og tilsluttes den ene af terminalerne på isolationstesteren. Den anden terminal tilsluttes stel på telefonbøsningen (LINE IN).

OBS!

For at undgå beskadigelser af apparatet er det vigtigt, at begge terminaler på isolationstesteren har virkelig god kontakt.

Spændingsreguleringen på isolationstesteren drejes langsomt op, indtil en spænding på 1,5-2 kV er opnået. Her skal den holdes i ét sekund, hvorefter der langsomt drejes ned for spændingen igen.

INSULATION TEST

Each set must be insulation tested after having been dismantled. Make the test when the set has been reassembled and is ready to be returned to the customer.

Flashovers must not occur during the testing procedure!

Make the insulation test as follows:

Short-circuit the two pins of the mains plug and connect them to one of the terminals of the insulation tester. Connect the other terminal to ground in phone socket (LINE IN).

NOTE!

To avoid damaging the set it is essential that both terminals of the insulation tester have good contact.

Slowly turn the voltage control of the insulation tester until a voltage of 1.5-2 kV is obtained. Maintain that voltage for one second, then slowly turn it down again.

Bang & Olufsen

LIST OF MECHANICAL PARTS

Stand for red. line

1603413 RL 60, Grey

1603466 RL 60, Black

1603469 RL 60, Silvergrey

1603513 RL 140, Grey

1603566 RL 140, Black

1603569 RL 140, Silvergrey

| | | |
|------|---------|--------------------------|
| 9001 | 3031311 | Fitting, RL 60 |
| | 3031312 | Fitting, RL 140 |
| 9002 | 2570075 | Stanchion, RL 60 |
| | 2570077 | Stanchion, RL 140 |
| 9003 | 3103304 | Base, RL 60, Grey |
| | 3103330 | Base, RL 60, Black |
| | 3103331 | Base, RL 60, Silvergrey |
| | 3103305 | Base, RL 140, Grey |
| | 3103334 | Base, RL 140, Black |
| | 3103335 | Base, RL 140, Silvergrey |
| 9004 | 3454675 | Bottom, RL 60 |
| | 3454676 | Bottom, RL 140 |
| 9005 | 3035055 | Slide Shoe |

Screws

| | | |
|---|---------|--------------|
| 1 | 2046013 | Screw 6 x 20 |
|---|---------|--------------|

Parts not shown

| | |
|---------|------------------------------|
| 3392142 | Wrapper, RL 60 |
| 3392141 | Wrapper, RL 140 |
| 3397717 | Foam packing, Bottom, RL 60 |
| 3397718 | Foam packing, TOP, RL 60 |
| 3397715 | Foam packing, Bottom, RL 140 |
| 3397716 | Foam packing, TOP, RL 140 |

